INSTITUTE MIHAJLO PUPIN
No. 1410/1-23
23-06-2023 year
BELGRADE, SERBIA

Subcontract for the Equipment Procurement and Dispatcher's Work Execution of Railway Line between Novi Sad - Subotica Section

CRSC INTERNATIONAL CO., LTD. OGRANAK BEOGRAD

AND

INSTITUT MIHAJLO PUPIN DOO BEOGRAD

JUNE 2023

THIS SUBCONTRACT is made between:

Party A:

CRSC INTERNATIONAL CO., LTD. OGRANAK BEOGRAD, with the registered seat in Belgrade, Belgrade-Zemun, Majevicka 2m, registration no: 29507678, tax identification no:110760071, legally represented by Mr. Yang Xu, the Legal representative of the branch office (hereinafter referred to as: "**Contractor**")

and

Party B:

INSTITUT MIHAJLO PUPIN DOO BEOGRAD, duly incorporated pursuant to the law of the Republic of Serbia, having its registered office and principal place of business at Volgina Street no. 15, Belgrade, Serbia, registration no: 07014694, TIN no: 100008310, represented by Nikola Tomašević, Ph.D.El.Eng, Director General (hereinafter referred to as: "Party B"or "**Subcontractor**")

Whereas:

On November 5, 2016 the government of the Republic of Serbia, Infrastructure of Serbian Railways JSC (hereinafter referred to as: "**Employer**") and Joint venture of China Railway international Co., Ltd. and China Communications Construction Company Ltd. (hereinafter referred to as **"Main Contractor"**) entered into a Commercial Contract on modernization and reconstruction of Hungarian-Serbian Railway connection in the territory of the Republic of Serbia, (hereinafter referred to as: "**Main Contract"**) relating the project of modernization, reconstruction and construction of railway line on the sections of Belgrade-Budapest railway line, in particular, section Novi Sad - Subotica (hereinafter referred to as "**Main Contract Works**"), in Serbia (hereinafter referred to as "**Country**"), and the Main Contractor consigned the Signalling and Communication construction works (hereinafter referred to as "**Contract Works**") and is entering the contract in this regard (hereinafter referred to as "**Contract**") to **Party A**;

1. Party A is authorized to undertake all the execution of the Subcontract Works and Equipment procurement;

2. Party A, desire to engage Party B to carry out the following works and Equipment procurement:

(1) Procurement dispatcher devices and dispatcher devices works,RDV system, (2) Responsible for the Works on installation and commissioning of dispatcher devices, RDV system

Party B is willing, and has the qualification and ability to undertake and complete the said Subcontract Works according to the requirements of Party A to provide relevant materials and to carry out the defect repair, quality assurance and other work.

Party A and **Party B** have entered into a Subcontract (hereinafter referred to as the "Subcontract") in Belgrade on June of 2023 after friendly consultation. The terms and conditions are set forth as follows for both parties to comply with.

Article 1 Definition

Unless otherwise required by the Subcontract, the following terms mentioned in this Subcontract have the following meanings:

1.1. "Day", "month" and "year" : respectively refer to the Gregorian calendar day, Gregorian calendar month and Gregorian calendar year that are generally applicable to the general industry as stipulated in the laws and regulations of The Republic of Serbia.

1.2 "Party A": Party A of this Subcontract, namely the **CRSC INTERNATIONAL CO., LTD. OGRANAK BEOGRAD**

1.3 "Party B": means the service implementation providers of this Subcontract, which refers to the entities accepted by Party A who are qualified to and will provide services under this Subcontract, namely the **INSTITUT MIHAJLO PUPIN DOO BEOGRAD**.

1.4 "Employer": means the Joint Stock Company for Public Railway Infrastructure Management "Infrastructure of Serbian Railways", Belgrade and its successors and/or its authorized representative(s), hereinafter referred to as JSC.

1.5 "Main Contract": means the Commercial Contract on modernization and reconstruction of Hungarian-Serbian Railway connection in the territory of the Republic of Serbia,signed by and between the government of the Republic of Serbia, Infrastructure of Serbian Railways JSC and joint venture of China Railway international Co., Ltd. and China Communications Construction Company Ltd on November 5, 2016 in Riga.

1.6 "Subcontract Works": Refers to the provisions of "The Priced Bill of Quantities (Appendix 1 which contains Part 5 – BoQ for Dispatcher devices material, Part 6 – BoQ for for Dispatcher devices Works, Part 8 – BoQ for RDV system, , to execute the equipment and materials supply, dispatcher's and RDV and Works between SECTION NOVI SAD – SUBOTICA which including the "specific work of Subcontracting", Its contents include but are not limited to the specified material, specified dispatcher's and RDV works, and delivery for the implementation of the items in the "bill of quantities and prices" and/or the additional specified materials and installation that may be required by the Employer per Appendix 1. The specific contents are limited to the provisions of this Subcontract.

1.7 "Subcontract": means this Subcontract, namely the Subcontract signed by Party A and Party B for the execution of the Equipment Procurement and Dispatcher's, RDV Works consisting of a Contract and its Appendixes.

1.8 "Total subcontract amount": means the total amount agreed herein by Party A to pay Party B to complete all the Equipment Procurement and dispatcher's, RDV works agreed herein and to assume the obligations and responsibilities agreed herein. "Total subcontract amount" in Appendix 1: The Priced Bill of Quantities which is including but not limited to: Party B under this contract for project scope, work content and construction standards required to complete this contract Delivery and Works, quality assurance, management, compensation and other costs, including taxes for works, personnel costs, allowances and subsidies, travel expenses, insurance, medical, etc to Party B (all personnel related fees), and this Subcontract, all expenses such as insurance profit, the final amount shall be to the actual amount of Equipment Procurement and dispatcher's, RDV works completed and the equipment material purchasing agreed.

1.9 "Defect Liability Period": period of 2 (two) year from the date on which the taking over certificate (ToC) of each station or section is issued separately.

1.10 "Warranty Period": from the date when the taking over certificate (ToC) of the Subcontract works, to the end of the continuous 5 (five) years, as per law of Republic of Serbia (including the period of liability for defects).

1.11 "Equipment": means all permanent equipment (including software and hardware), and manuals or other technical materials provided by Party B under-this Subcontract.

1.12 "Project": means the Project on modernization and reconstruction of Hungarian-Serbian Railway connection in the territory of the Republic of Serbia, for section Novi Sad - Subotica

1.13 "Site": means the site where the dispatcher, RDV or equipment of the project is installed and operated and any other site which is an integral part of the site.

1.14 "Commission test": means the joint test of locomotive and vehicle, communication, signal, information and operation equipment related to this Subcontract.

1.15 "Technical standards": project construction related to this Subcontract and railway communication and signal technical standards to be followed by the projects agreed herein, and any modification or addition to such standards as may be confirmed in writing by both parties.

1.16 "Variation": means any change to the Employer's Requirements, which is instructed or approved in writing by both Parties.

1.17 "Written form": means all kinds of written notices, letters, minutes, entrustments and other forms of tangible expression, including but not limited to handwritten, printed, telegram, fax, picture, E-mail, etc.

1.18 "Tax": means any and all taxes and fees, including but not limited to income tax, withholding tax, value added tax, sales tax, or similar tax, stamp tax, customs, fiscal expense and other dues according to their current or future or any governmental authorities or imposed by any laws or regulations imposed similar fees associated with the tax .

1.19 Words not specifically defined in this Subcontract shall be defined and interpreted in accordance with the main contract.

Article 2 Training

Party B shall be responsible for one day of general training in connection to the supplied system and equipment, including on-site training or training at Party B or the equipment manufacturer. The general training content includes the performance, use, installation, debugging and maintenance of the system and equipment provided by Party B.

Article 3 Subcontract Price

3.1 Subcontract Price

The Subcontract total price and the unit price is fixed, The Subcontract price is USD **4.721.651,56** without VAT (if any, VAT will be calculated and paid according to the VAT Law of the Republic of Serbia). The above price shall include all the expenses required by Party B to implement and complete the scope of work of Party B as stipulated in this subcontract and fees charged by the government department and adjustment, etc are included in the Subcontract price which are related to Party B legal obligations for equipment procurement and dispatcher's, RDV works. Party B has fully anticipated the possible within the scope of all risks, Unit price is not adjusted for risk range of any changes.

The Subcontract price shall be in US dollars and all payments shall be made in RSD according to the middle exchange rate of the National Bank of Serbia on the invoiced date.

Party A's information:

CRSC INTERNATIONAL CO., LTD. OGRANAK BEOGRAD

Majevička 2M, ZEMUN,BEOGRAD
PIB:110760071
registration no: 29507678

Party B's information:

INSTITUT MIHAJLO PUPIN DOO BEOGRAD,

Volgina Street no. 15, Belgrade, Serbia,
VAT no: 100008310
registration no: 07014694

3.2 Specific contents of the Subcontract:

Stipulated in The Priced Bill of Quantities (Appendix 1).

Article 4 Start time and Site for dispatcher's, RDV and optical Works

Subcontracted equipment procurement and dispatcher's work Start time: After the entry into force of this Subcontract, Party B shall execute the Subcontract immediately after Party A requests Party B to execute the Subcontract according to Appendix 4 - Time schedule – Dynamic of equipment procurement and dispatcher's works

Subcontracted dispatcher's work Site: The section between Novi Sad and Subotica.

Article 5 Composition of the Subcontract

The Subcontract consists of the following documents:

(1) Subcontract

(2) Subcontract Appendixes:

Appendix 1: The Priced Bill of Quantities

No.	Project	Drawing No.	Price (USD)	Revised price USD with discount
Part-5	DISPATCHER DEVICES - Material	5.4	3,491,800.60	**3,212,456.55**
Part-6	DISPATCHER DEVICES - Works	5.4	935,405.36	**860,572.93**
Part-8	RDV system	5.8.1	705,024.00	**648,622.08**
TOTAL (USD):				**4.721.651,56**

* Part 5 – BoQ for Dispatcher devices material,
* Part 6 – BoQ for for Dispatcher devices Works,
* Part 8 – BoQ for RDV system,

Appendix 2: List of personnel from Party B;
Appendix 3: PZI drawings design documents officially approved by the Employer provided by Party A;

Appendix 4: Time schedule – Dynamic of equipment procurement and dispatcher's, RDV and optical works;

Appendix 5: The responsibility matrix;

Appendix 6: Agreement On The Manner Of Implementation Of Proscribed Occupational Safety And Health Measures.

Appendix 7: Protocol for Cooerpation on 3.Section for High-speed Line Novi Sad - Subotica for Central Dispatching Devices and Telephony

(3) Other Subcontract Documents: written agreement, confirmation letter, memorandum, minutes and other documents reached by both parties during the performance of this Subcontract.

Article 6 Safety requirements

Party B shall pay attention to production safety, comply with the laws, regulations and requirements on production safety of relevant departments, governments of project host countries and Party A, and prevent the occurrence of safety accidents.

Party A has signed the implementation of safety measures and applicable agreements and other documents related to safe production and construction under the project, and Party B shall comply with the requirements set forth in the documents. In case of any violation of the provisions of the documents caused by Party B, Party B shall bear the corresponding responsibilities.

Article 7 Responsibilities of Party A

7.1 As per the stipulations in the Main Contract regarding the provision of the work site by the Employer to Party A, Party A shall provide to Party B in English or Serbian language of the technical and design documentation, with the work site and the access road for smooth passage to the site during the construction period.

7.2 In case of request of Party B, Party A shall be responsible for obtaining various technical permits, certificates and relevant documents related to the Subcontract Equipment procurement and dispatcher's, RDV works.

7.3 Party A shall supervise and check Party B's actual progress, quality and safety situation from time to time. Party A's supervision and inspection shall not relieve Party B from the responsibilities of completing the Subcontract Works according to the requirements in the Subcontract. Party A has the right to request Party B to remedy or rework the part of dispatcher's, RDV and optical works that fails to meet the standards or are proven as disqualified, and to demand Party B to replace unqualified materials and equipment delivered by Party B, or demand to replace the ineligible or incompetent personnel of Party B, including Party B's representative. If Party A demands the replacement of Party B's personnel, Party B shall send the competent personnel in position within 14 days, and the handover/replacement time shall be less than 2 (two) weeks.

7.4 According to Party B's written request and plan, Party A shall organize communication and negotiation with respect to design, technology and construction between Party B and the Employer or its representative.

7.5 Party A shall facilitate the dispatcher's, RDV work connection and coordination between Party B and other working parties so that Party B can proceed smoothly according to the approved design and construction plans. Party A will provide work schedule and permits for works at field, per railway stations and sections between stations.

Article 8 Responsibilities of Party B

8.1 Party B shall meet the European Union standards for works, equipment and materials which are in scope of Party B and Serbia's standard specifications and design requirements, the requirements of the owner and / or Party A and the requirements agreed in-Annex 3 and 4-Appendix of this Subcontract, abide by the subcontract, and conscientiously execute and complete dispatcher's work of the subcontracted project for material delivered by Party B, all according to the law of The Republic of Serbia.

Party B is obliged to weekly fill the construction logs Part 6,8,9 and submit it to Party A according to Serbian Law for planning and construction and Party A is obliged to verify it at least once per week. Party B shall submit the construction plan based on Appendix 4 and Article 7.1 to Party A in weekly basis and implement it after Party A has approved it. During the execution of this Subcontract, Party B shall timely and fully communicate with the Employer and other subcontractors of the project (especially the subcontractors and Party B shall be fully liable for the penalty caused by the construction delay and/or suffered by Party A and the compensation for the loss of other professional subcontractors of the project if such delay is caused by Party B.

Party B is fully responsible for quality of equipment and materials delivered by Party B according to Appendix 1 and the timely completion according to Appendix 4 Party B shall provide sufficient personnel and equipment to meet the needs of this Subcontract. If Party B is not able to or will not be able to complete the Subcontract within the regulated time period, Party A has the right to terminate this Subcontract, with advance notice 60 days and nominate other third party company as Subcontractor to fulfil the rest part of the Subcontract Works, and Party B will bear the related cost exceeding the cost which should have been paid to Party B.

8.2 Party B should, in compliance with related provisions as stipulated in the Subcontract, take on all the responsibilities of this Subcontract, and bear all the relevant risks and responsibilities by Appendix 1. Party B shall be responsible for all the materials and works relating to the Subcontract-according to Appendix 1, Party B shall bear all the costs and expenses in relation to this Subcontract , i.e. Appendix 1. In the execution of the Subcontract, if Party B's behavior or negligence causes Party A to breach the Main Contract and/or the Subcontract, or if Party B breaches the Subcontract, Party B should compensate Party A for the losses thus incurred thereafter.

8.3 Party B is obliged to submit monthly to Party A Work Progress Schedule, Progress Payment Application and other forms and documents that may be required by Party A in accordance with this Subcontract to ensure the completion of the Subcontract as defined in the Appendix 4- Schedule of the subcontract works. Party B shall provide delivery plan, and strictly implement it after approval by Party A.

8.4 Party B is obligated to abide by the Serbian laws; comply with the administrative rules and regulations of local authorities–regarding the traffic around the work site, construction noise, environmental protection and safety and civility in construction, as well as to any other applicable law or regulations in relation to the Subcontract

8.5 Party B is obligated to cooperate with and make it convenient for supervision and inspection of the Employer, the Employer's representative and Party A. In the event of exceptional cases or accidents, Party B should immediately notify Party A while taking active and effective remedy measures.

8.6 Party B is obligated to provide and employ such skilled, semi-skilled and unskilled employees and workers as is necessary for the proper and timely execution of the Subcontract. Party B shall at all times during the progress of the Subcontract use its best endeavors to prevent any unlawful, riotous or disorderly conduct or behavior by or among its employees and workers. Party B shall compensate Party A for the losses suffered by Party A due to Party B's riots caused by Party B's reasons and related to Subcontract and Appendix 1.

8.7 Party B should be fully responsible for the safety in construction of the Subcontract, i.e. dispatcher's, RDV works. Accordingly Party B should set up a sound and necessary safety and security system and accept the safety training by Party A or Employer to ensure personnel safety of its staff, local employees and workers and provide them with the safety equipment and safety protect product to ensure the mentioned people use it correctly or Party A shall put penalty to Party B. Party B should arrange a safety responsible person for dispatcher's, RDV works. Party B should commit itself to avoid of accident occurred and problems and damages arising from the accident. Party B shall bear all legal responsibilities for the acts and consequences of the staff members responsible for the performance of this Subcontract. Party B shall be responsible for the safety production accidents, traffic accidents and other accidents that occur only in the performance of this Subcontract works and Appendix 1. Party A may cooperate with Laws and regulations deal with the aftermath.

8.8 The Value Added Tax amount calculated according to the related laws is not included in the Subcontract price.

8.9 Party B should not assign the whole scope of Subcontract Works to any third party without written approval of Party A, which shall not be unreasonably denied or delayed.

8.10 During the execution of the Subcontract, Party B will actively support in the whole process of the coordination with any third party who may affect the smooth implementation of this Subcontract.

8.11 Party B shall be responsible for filling out the project log during construction dispatcher's, RDV and works and related records of construction process.

8.12 Party B is responsible for its all personnel on the Site and shall arrange the related insurance to the personnel as per the laws and regulations in Serbia. In case of any accidents happened to the personnel of Party B on site, Party A would be indemnified from any legal result and financial loss accordingly.

8.13 De-installed elements disptacher and RDV material are the property of Employer and/or Party A. Party B is obliged to, if specified in Appendix 1:

(1) De-install the material so that they can be in the same mode and functions as they were before dismantling which will be approved by both parties written sign for confirmation according to Appendix 1.

(2) Make a list of all de-installed material and equipment and delivered to Party A, who will decide the final list of de-installed material and equipment to handover to Employer according to Appendix 1.

(3) Transport the de-installed material and equipment to the place designated by Employer if defined by Appendix 1.

8.14 Party B shall be responsible for the storage and transportation of equipment and materials to the Subcontracted work site only for the Part 5 and 8 – BoQ for Dispatcher devices and RDV material of Appendix 1, which are provided by Party B.

8.15. For other equipment (not specified by article 8.14.) according to Appendix 1, Party A is obliged to organize taking-over of the equipment at IMP warehouse, address Volgina 15, Party A shall be responsible for storage of such equipment per Appendix 1. Transporting such materials and equipment is obligation of Party A.

8.16 In case the Subcontractor, during geological investigation and other dispatcher's, RDV and l works determine existence of archeological settlement, necropolis or other objects of archeological significance, he is obliged to immediately cease further works, secure the site from damage or usurpation and immediately inform Engineer. If such case occurs the deadline for provision of Services by Party B's shall be extended for the period of the duration of work seizure or longer if

requested by Party B.

8.17 All fossil remains, coins, valuable items and antiques, structures and other remains or items of geological or archeological interest which are found at the construction site shall be handed over to the Party A for safe keeping and disposal. The Party B is obliged to undertake reasonable measures to prevent removal or destruction of those findings by the Party B's staff.

Upon discovery of such items, Party B is obliged to notify the Party A immediately thereof, and then the Party A shall order further procedures with those items.

Upon receipt of further notifications, Party A shall act in line with this Subcontract in order to agree or determine those issues.

8.18 The Party B undertakes that during the execution of this Subcontract shall realize this Subcontract in accordance with the Law on Cultural Heritage.

8.19. Party B guarantee that dispatching equipment shall be capable for interface with existing dispatching system on high-speed line which is covered by this Agreement and that consumption of dispatching equipment shall be the same or less as existing system. Interface to Aleksandrovo's 2 pcs. of LB telephone is covered under the amount of this Agreement.

8.20. Party B shall do changes in existing PZI design documentation for dispatching devices in 30 days after signing of this Agreement and submit it electronically.

Article 9 Setting Out, Materials and equipment

9.1 Materials and equipment provided by Party B

9.1.1. Party B shall be responsible for the production of materials and equipment within the scope of responsibility of Party B during the implementation of this Subcontract for Appendix 1. The purchasing behavior and technical requirements of Party B shall comply with the relevant provisions of the Offer accepted (Appendix 7), and the colors and appearance of equipment cabinets shall meet the requirements of Party A accordingly. Party B shall be obliged to be responsible for the quality of the purchased materials and equipment. Materials and equipment that need to be licensed or certified must be licensed or certified. Party A shall supervise and inspect the purchase, supply and acceptance of the materials purchased by Party B. If the progress of Party B's purchase of materials and equipment fails to meet the needs of the project according to accepted Offer, Party A shall have the right to claim compensation from Party B.

9.1.2. Party B shall submit variety, specification, quantity and delivery time of all materials and equipment to Party A for approval. Prior to the installation of the materials and equipment, Party B shall be obliged to submit certificates, certificates of origin of the materials and equipment and other documents to Party A in accordance with the laws and regulations of the Republic of Serbia, Party B shall be obliged to submit it to Party A and/or to the supervisor and meet the quality standards stipulated in the Offer submitted, and accept the inspection and guidance of Party A on the procurement of materials, equipment and materials related to the quality and safety of the project.

In case of any problems with the materials and equipment supplied by Party B, Party B shall replace or repair the materials and equipment supplied by Party B within 48 hours (if requested on employer) but not later than 72 hour and ensure that the subcontracted equipment meet the acceptance standards.

9.1.3 For the materials and engineering equipment provided by Party B, Party B shall accept the supervision, inspection and acceptance of delivery by the employer, the supervisor, the official institutions of Serbia and Party A. Party B shall provide certificate of conformity of the materials and the certificate of conformity of the product and other necessary certificates and carry out the sampling inspection of the materials and the inspection and testing of the engineering equipment in accordance with the Contract and the instructions of the supervisor.

The inspection and test results shall be submitted to Party A and the supervisor, and the expenses shall be borne by Party B for equipment delivered by Party B according to Appendix 1.

9.1.4 Party B shall guarantee the quality of materials and equipment purchased for the project for equipment delivered by Party B according to Appendix 1, and shall not purchase or use unqualified materials and equipment. If unqualified materials and equipment are used, Party B shall comply with Party A's decision on treatment and penalty and bear relevant responsibilities and expenses.

The cap of penalty is 0.1 % per day of delay or maximum 5 %, based on schedules from Appendix 4, of subcontract price of the unqualified material delivered by Party B according to Appendix 1..

9.1.5. Party A shall control the materials and equipment purchased by Party B in accordance with relevant provisions of this Subcontract. Party B shall follow the material and equipment supply plan approved by Party A.

9.3 Forbidden to use unqualified materials and equipment

9.3.1. Party A and the supervisor shall have the right to reject the unqualified materials or project equipment provided by Party B according to Appendix 1 and request Party B to replace them immediately. Party A and the supervisor shall conduct inspection and inspection again after replacement, and Party B shall bear the additional costs and/or delay of the construction period.

9.3.2 If Party A and the supervisor find that Party B uses unqualified materials and equipment, they shall immediately issue instructions to Party B to correct immediately and prohibit the continued use of unqualified materials and equipment in the project for equipment delivered by Party B according to Appendix 1.

9.4 Setting Out

9.4.1. The Party B shall set out the dispatcher's, RDV works according to the PZI design documents and manuals per Article 7.1. If done dispatcher's, RDV works are not according to the design documents provided by Party A , Party B is responsible to organize necessary measurements and tests during the construction process, and provide the effective measurement and test reports free of charge.

9.4.2. The Party A may instruct the Party B to conduct the sample retest for equipment delivered by Party B according to Appendix 1. If any error or error exceeding the specification is found in the retest, the Party B shall correct or make up the retest according to the Party A's instructions and bear the retest expenses accordingly.

Article 10 Transportation and site cleaning

10.1 Party B shall be obliged to:

(1) Before the delivery of the good/materials for dispatching and RDV Party A submit all needed documents), which is obligation of Party B by Appendix 1, Party B shall be obliged to submit all necessary documents at least 7 working days in advance to prove that the shipped goods confirm to all technical standards and quality standards specified in this agreement;

(2) Party B or Party A shall notify each other at least 7 working days in advance before any equipment or major goods arrive at the construction site;

10.2 Site Clearance

In the course of carrying out the Subcontract, Party B shall keep the construction site reasonably free from all unnecessary obstruction, store or remove any surplus materials, clear away any wreckage, rubbish, plants, from the construction site, and remove any Party B's Equipment which is results of Subcontract works no longer required for execution of the Subcontract.

After Completion of dispatcher's works under this Subcontract, Party B shall clear away and remove all its wreckage, rubbish and debris of any kind from the construction site, and shall leave the construction site in a clean and safe condition which is results of subcontract works.

Article 11 Test and Inspection

11.1 Test and Inspection of Materials, Equipment System and Project

11.1.1. Party B shall conduct the test and inspection of the materials, equipment, project and system as agreed herein, and provide necessary test data and original records for the quality inspection of the aforesaid materials, equipment, project and system to Party A and the supervisor. If the test and inspection shall be carried out jointly by Party A and the supervisor as agreed in the Subcontract, Party B shall be responsible for providing necessary test data and original records according to technical documents and manuals provided by Party A from Article 7.1.

11.1.2. If the supervisor fails to send personnel to participate in the test and inspection at the agreed time, except as otherwise instructed by the supervisor, Party B may conduct the test and inspection by itself upon consent of Party A, and shall immediately submit the test and inspection results to Party A, and Party A shall sign for confirmation.

11.1.3. If Party A and the supervisor have reasonable doubts about the test and inspection results of Party B, or require Party B to conduct the test and inspection again in order to find out the reliability of the test and inspection results of Party B, Party A and the supervisor can carry out the test and inspection jointly as agreed in the Subcontract. If the re-test and inspection results prove that the materials, equipment or the quality of the project does not meet the requirements of the Subcontract, the additional costs and/or delay of the construction period shall be borne by Party B.

11.2 Factory Acceptance Test（FAT）

Party B shall notify Party A's Factory Acceptance Test (FAT) 7 days in advance by e-mail, Party A shall provide test and quality plan for all materials and equipment provided by Party B. The e-mail shall be accompanied by detailed test information, test address and test schedule. After receiving the above email, Party A shall forward it to the Employer immediately and Party B shall provide all necessary test conditions for the test.

Party B shall conduct the necessary tests in accordance with the valid technical regulations. If there is any place in the factory inspection that does not meet the requirements of Party A, Party A has the right to refuse to accept the items to be inspected. Party B shall replace and remedy at its own expense. The above- mentioned re-inspection expenses shall be borne by Party B.

11.3. Party A and the supervisor may use Party B's test site, test equipment and other test conditions to conduct a review of the review material for the purpose of project quality inspection when necessary.

11.4 Technological test on site

Party B shall conduct on-site Technological test related to works in accordance with the Subcontract or Party A's instructions. If Party A deems it necessary to carry out large- scale on-site Technological test, Party B shall, according to Party A's process test requirements, prepare the process test plan and submit it to Party A for approval.

11.5 Test and Inspection date

Party B shall inform Party A 21 days in advance of a certain fixed date, indicating that it intends to carry out completion inspection after such date. Unless otherwise agreed, such inspection shall be conducted within 14 days after such date on a date or days as directed by Party A. Party A shall provide test and quality plan for all materials and equipment provided by Party A.

Party B shall carry out the completion test in accordance with the standards stipulated by the laws of the republic of Serbia and the test project defined by the construction design.

If the completion test is delayed due to reasons attributable to Party B and the reasons for delay are unreasonable, Party A shall have the right to notify Party B and require Party B to conduct such test within 21 days upon receipt of such notice. Party B shall conduct the inspection on such date or days as it may determine and shall notify Party A of such date.

Article 12 Acceptance

12.1 Completion document

Party A shall provide test and quality plan for all materials and equipment, Party B shall prepare and update a complete set of project completion records at any time for equipment provided by Appendix 1, and truthfully record the exact location, size and detailed description of the Subcontracted works performed. The above completed records shall be kept on site and shall be used only for the purposes of this paragraph.

Party B shall obtain the consent of the Employer for the equipment and materials in terms of the size, benchmark system and other relevant details under the assistance of Party A.

12.2 Completion acceptance application report

When the sub-section project or the overall project has the following conditions, Party B shall notify Party A in writing 28 days prior to the completion of the dispatcher's, RDV works, and shall be ready to accept the completion acceptance and submit the completion acceptance application report.

(1) Except for the unfinished work and defect repair work to be completed by Party A in the period of defect liability, all the section projects and related work within the scope of the Subcontract, including the test, inspection and acceptance required by the Subcontract are completed as per standard;

(2) Completion materials that meet the requirements have been prepared in accordance with the contents and the number of copies agreed in this Subcontract; The content and number of completed materials shall comply with the requirements of Article 12.1 of this Subcontract;

(3) The list of unfinished works and defects repair work and the corresponding construction plan referred to in the article 12.2(1) completed during the defect liability period have been prepared in accordance with Party A's requirements;

(4) Other work that Party A per Appendix 1 requires to complete before completion acceptance;

(5) A list of completion acceptance data submitted by Party A.

12.3 Acceptance

Upon receipt of the completion acceptance application report submitted by Party B in accordance with article 12.2 hereof, Party B shall submit the application report to Party A for examination of all contents and handle the application according to the following conditions:

12.3.1. If Party A considers that the completion acceptance conditions are not met after examination, it shall within 5 working days indicate the work to be done by Party B before issuing the acceptance certificate. After Party B completes all dispatcher's and RDV works contents notified by Party A, it shall submit the completion acceptance application report again until Party A agrees.

12.3.2. If Party A considers that it has completed the acceptance conditions, Party A will submit the project acceptance to the Employer/Committee for Technical Acceptance/Notified Body within 28 days after receiving the application for completion acceptance.

12.3.3. Before the expiration of the defect liability, Party B shall actively cooperate with Party A's final acceptance in the scope of this Subcontract. If the project acceptance in this Subcontract fails due to Party B, Party B shall carry out rectification in accordance with the supervision requirements until the acceptance requirements are met.

12.3.4. If the Employer/Committee for Technical Acceptance/ Notified Body does not agree to receive the railway stations or sections after acceptance, Party A shall issue instructions according to the acceptance opinion of the Employer/technical acceptance committee/Notified Body, and request Party B to seriously rework or remediate the unqualified part of the project per Appendix 1 and bear the costs incurred if the faults are caused due to Party B. After completing the rework or remedial work of the unqualified part of the project per Appendix 1, Party B shall re-submit the application report for completion acceptance, in accordance with the provisions of Items 12.3.1, 12.3.2 and 12.3.3 for its works per Appendix 1.

12.3.5.If the technical acceptance committee fails due to Party B works, Party B shall carry out the rectification in accordance with the requirements of the supervision or technical committee until the requirements are met. After the above-mentioned section or the above part of the project is handed over, Party B shall complete the works of the unfinished contracted works within defect liability period and the completed contracted works listed in the handover certificate issued by the supervisor within the defect liability period.

12.4 Construction period operation

Construction period operation means that the Subcontract w o r k s has not been completed yet. If the installation of one or several units of subcontracted equipment has been completed and needs to be put into operation during the construction period, Party A shall pass the inspection and acceptance according to the provisions of Article 12 of this Subcontract. The Project can be put into operation during the construction period after it proves that it can be safe. If the project or project equipment per Appendix 1 is damaged or has defects during the construction period, if it is identified as Party B's responsibility, Party B shall repair it free of charge within 14 days.

12.5 Delivery operation

Party B shall cooperate with Party A in the delivery and operation and project equipment per Appendix 1. If the delivery operation fails due to reasons attributable to Party B, Party B shall take measures to ensure that the trial operation is qualified and bear the corresponding costs by itself. If such fail is due to reasons not attributable to Party B additional cost that could arise in order to put the equipment into operation will be beared by Party A.

12.6 Completion clearance

After the issuance of the project acceptance certificate, Party B shall clean up the construction site according to the following requirements until Party A passes the inspection. Party B shall bear the cost of clearing the site upon completion only of works defined in Appendix 1.

(1) All remaining garbage in the construction site has been removed;

(2) Party B's equipment and remaining materials, including abandoned construction equipment and materials, shall be evacuated from the construction site according to the Subcontract;

(3) The construction debris only caused by Party B debris around the construction buildings and the roads and rivers nearby has been cleaned up according to the instructions of Party A;

If Party B fails to resume the temporary land occupation as required by Party A, or the site cleaning fails to meet the provisions of the Subcontract, Party A shall have the right to authorize others to restore or clean up the site, and the amount incurred shall be deducted from the amount to be paid to Party B.

12.7 Evacuation of construction personnel

Within 56 days after the issuance of the taking over certificate, except for the personnel, construction equipment and temporary works that shall continue to work and use within the period of liability for defects as agreed by Party A, the rest of the personnel, construction equipment and temporary works shall be evacuated from the construction site or removed. Unless otherwise agreed herein, when the liability for defects expires, Party B's personnel and construction equipment shall be evacuated from the construction site.

Article 13 Measurement and payment

13.1 Measurement

13.1.1. The measuring units are shown in appendix 1 of this Subcontract.

13.1.2. Measurement basis:

(1) This Subcontract (including supplementary contracts or agreements);

(2) The Appendix 1 of this Subcontract and the actual number of completed projects in the current period confirmed;

(3) Relevant progress and quality documents approved by Party A;

(4) The approved PZI drawings;

(5) The Subcontract and the certificate of qualified quality;

13.1.3 Measurement cycle: once a month for measurement.

13.2 Payment

13.2.1. Pay for Advance payment

The advance payment shall be used by Party B to purchase materials, project equipment, construction equipment, temporary facilities, expenses of Party B, and organize the construction team to enter the site for the construction of the Subcontract project. The advance payment shall be 20% of the total scope amount of the Subcontract per parts shall be paid divided by next schedule:

- For Part 5 - Dispatcher devices-Material after Party B submit to Party A DeBo certificate – advance payment is 20 % **(USD 642.491,31 without VAT)**
- For Part 6 - Dispatcher devices – Works – 30 days before start of Works, Party A inform in written form Party B about start of Works – advance payment is 20 % **(USD 172.114,58)**
- For Part 8 – RDV system – after signing of this Agreement – advance payment is 20 % **(USD 129.724,41 without VAT)**

For all advance payments, within 5 (five) working days after Party B submits the separate guarantees accepted by Party A and above conditions, Party A shall pay the advance payment stipulated in this Subcontract to Party B. If Party B fails to submit the advance payment guarantee, Party A shall not pay the advance payment to Party B. Party B shall submit the guarantee as per 14.3.1. Clause.

The advance payment is deducted from the project progress payment. The method of deduction is to deduct 20% of the bill amount from each interim payment certificate and each scope-part and invoices until the full amount of the advance payment is deducted.

13.2.2. Part 5 –Dispatcher devices-Material, Part -6 for Dispatcher devices – Works and Part 8 - RDV system for Interim payment certificate. The interim payment certificates for deliveries of both Party B which are done in accordance with this Subcontract, shall be issued only by Party B and shall include the following items and shall be expressed in the following order in the currency type agreed upon in the subcontract:

(1) Estimated Subcontract value of the projects that have been implemented in the current period and the documents (such as changes, adjustments, etc.) that have been submitted;

(2) The amount is the retention fee of 5% of the value of the Subcontract that has been carried out and the documents of Party B;

(3) The total amount of materials and equipment used for permanent works delivered to the site;

(4) Deductions for materials and equipment for permanent works identified in all previous payment certificates;

(5) Any other increase or deductions payable in accordance with this Subcontract and the main contract;

(6) The increase or deduction caused by the implementation of the regulations issued by Party A.

Party A shall complete the verification in 7 days (including the time for coordinating Party B to modified interim payment certificate, report and accompanying documents) after receiving the interim payment certificate submitted by Party B (submitted at the end of each month), the report and accompanying documents and verify it, and submit it to the Employer. Party A shall pay without delay paid to Party B not later than 30 days from issuing monthly interim payment certificate and approving from Party A. If the goods or works carried out by Party B do not meet the requirements of this Subcontract, the relevant expenses may be temporarily detained or replaced, and shall be paid after Party B completes the rectification or replacement; If Party B has not or has not performed the work or fulfilled its obligations in accordance with this Subcontract, and the supervisor has issued a notice for this purpose, the relevant amount of such work may be temporarily detained until Party B successfully carries out the work or fulfills its obligations.

The payment of the project payment shall be based on the unit price of this Subcontract. Party B shall pay all taxes (if applicable) and fees payable by it in accordance with the requirements of this Subcontract related to works per Appendix 1.

13.2.3 Payment after Delivery Equipment: upon the taking over of the goods and FAT inspection by Party A/Engineer with the submittal of valid invoice of delivered amount for successively took over goods, as well as to submit the Receipt of Taking over Note (Signed by Party A when goods took over from Party A and Party A check the goods quality & quantity as per the Subcontract), within 30 days of above mentioned document took over by Party A.

13.2.5 Retention

The retention fee shall be 5% of the subcontract price. From the each payment period, Party A shall deduct 5% of the amount of subcontracted project payment corresponding to the completed project payment certificate from each project payment period and withhold proportionally the retention payment until the total amount of retained retention payment reaches the agreed amount or proportion. The amount of the retention fee shall not include the payment of advance payment or the amount deducted. No interest is allowed.

Party A shall, within 28 days upon receipt of 50% of the retention money returned by the Employer in a lump sum or by the partition, and upon confirmation of Taking-Over Certificate, return 50% of the quality deposit to Party B in a lump sum or if Party B retention money guarantee Party A will return 100% of retention money. Party B shall ensure that the guarantee is in the amount and currencies of the second half of the Retention Money and is valid and enforceable until the Party B has executed and completed the dispatcher's works and remedied any defects, as specified in the said Guarantee. On receipt by the Party A of the required guarantee, the Party A shall pay the second half of the Retention Money to Party B.

If Party B fails to fulfill the defect liability upon expiration of the defect liability period, Party A shall have the right to detain the remaining amount equal to the amount required for the remaining work, and shall have the right to extend the defect liability period according to the agreement on the extension of the defect liability period until the completion of the remaining work.

13.2.6 Completion settlement

13.2.6.1. Completion Payment Application

After the project receiving certificate is issued, Party B shall submit the completion payment application form to Party A according to the agreed number of copies and the time limit, and provide relevant documents per Appendix 1. Except as otherwise stipulated in the terms of this Subcontract, the completion payment application form shall include the following contents: the total price of the completion settlement of this Subcontract, the construction price paid by Party A, the quality deposit that should be withheld, and the amount of completion payment due. If Party A has any objection to the completion payment application form, Party A has the right to request Party B to make amendments and provide supplementary information. After Party A and Party B have negotiated, Party B shall submit the revised completion payment application form. The revision shall be done in time frame according to tax laws of Republic of Serbia.

13.2.6.2. Completion payment certificate and payment time.

(1) If Party B has any objection to the completion payment certificate signed by Party A, Party A may issue a temporary payment certificate that Party B has agreed to in the completion payment application form. The disputed part shall be handled in accordance with the provisions of Article 24;

13.2.7 Final settlement

13.2.7.1. Final settlement application form

(1) After the issuance of the defect liability period completion certificate, Party B shall submit the final settlement application form to Party A (based on form which is defined firstly by Party A) according to the number of copies and the time limit stipulated in the Subcontract terms, and provide relevant certification materials per Appendix 1.

(2) If Party A has any objection to the content of the final settlement application form (based on form which is defined firstly by Party A), Party A shall have the right to request Party B to make amendments and provide supplementary information, and Party B shall submit the revised final settlement application form to Party A. If Party A does not deliver any objection within 14 days, this shall mean that Party A has no objections.

13.2.7.2 Final settlement certificate and payment time.

Party A shall pay to Party B the final settlement within 45 days after Party A receives the performance certificate from Employer or if Party B provides bank warranty for retention. Party A shall review or confirm or request Party B to supplement other materials within 21 days after receiving the application for final payment certificate submitted by Party B. Within 21 days after Party A receives the total package equipment / work amount corresponding to the final Subcontract payment certificate of the main contract, Party A shall transfer the subcontracted project payment corresponding to the final payment certificate application of this Subcontract to Party B.

Article 14 Advance payment Guarantee

14.3.1. Party B shall submit advance payment guarantee to Party A within 28 days after the Subcontract is signed by authorized signatories of all Parties, stamped with corporate seals. The specific form of guarantee shall be approved by Party A.

14.3.3. The advance payment guarantee provided by Party B to Party A shall remain valid from the signing of this Subcontract until advance payment is approved/fully deducted by Party B. Party A will return back the advance payment guarantee to Party B within 28 days after the fully deduction of advance payment

14.3.4. The bank issuing the guarantee must be a world-class bank or a local bank approved by Party A. All bank guarantees referred to under this section must have a clause stating that they are irrevocable unconditional demand guarantees.

Article 15 Alteration of Subcontract

15.1 In case of any alteration of the subcontracted works during the execution of this Subcontract, both parties shall have the right to apply for alteration of this Subcontract. The modification shall come into force after friendly negotiation by both parties and signature and seal by both parties.

15.2 Party B shall not alter the original project design during construction. Party B shall bear the expenses incurred by Party B in changing the design without authorization and all losses of Party A caused thereby.

15.3 Party B shall not have the right to demand additional service remuneration for project changes caused by reasons attributable to Party B.

15.4 If there is any change in the main contract signed between Party A and the employer, the change is approved by both parties and can be applied to this subcontract.

Article 16 Defect liability and warranty

16.1 The Commencing Date of the Defect Liability Period
Defect liability period refers to the period during which Party B of the project undertakes the obligation of defect repair as agreed herein. The period shall be 2 years from the date the taking-over certificate of each station or section is issued separately. Before the completion and acceptance of all the projects, the starting date of the defect liability period of the subdivision projects that have been accepted by Party A in advance shall be advanced accordingly.

16.2 Party B shall, within the defect liability period, assume the same defect liability as stipulated in the main contract for the works already delivered. During the liability period for defects, Party B shall not only complete the unfinished work items listed in the handover certificate, but also repair any defects that occur. Related to works per Appendix 1 Party B shall bear the expenses for defects caused by Party B.

16.3 During the defect liability period, the Employer shall be responsible for the daily maintenance of the works that have been received and used. In the process of use, if the Employer finds any new defect or damage to the repaired defect parts or parts caused by Party B Party B shall be responsible for the repair until the inspection is qualified related to dispatcher's, RDV and otpical works or equipment per Appendix 1.

16.4 Party A may provide supplementary design documents and notices within the scope of this Subcontract in order to ensure the correct implementation of this Subcontract or to complete the repair of its defects. Party B shall unconditionally accept and execute the supplementary design documents and notices upon mutual agreement between Party A and Party B.
Party B and Party A shall agree mutually about changes and new price level, and execute works for the supplementary changes design documents and notices upon mutual agreement between Party A and Party B.

16. 5 Party A and Party B shall jointly investigate the causes of defects and/or damages. Party B shall bear the cost of repair and inspection if it is found to be caused by Party B. If the inspection is not caused by Party B, Party A shall negotiate with the Employer to bear the costs of repair and inspection, and pay a reasonable fee to Party B after obtaining the relevant costs from the Employer.

16.6 Extension of defect liability period
When Party B causes a defect or damage that results in the impossibility on certain work or equipment to be used as its original usage, and they need to re-check, inspect and repair, in case the defects liability period is extended as per the main contract, Party A is entitled to request Party B to extend the defects liability period accordingly; however, the longest extension of the defects liability period will not be more than 2 (two) years and shall not be longer than the period regulated in the main contract on the extension of the work related to the subcontract.

16.7 In order to ensure the safety of railway transportation and restore the normal operation of the line in time, if any quality accident or problem occurs caused by Party B per Appendix 1 and documents per Article 7.1 after the completion of the construction project and requires rework and repair, Party A shall notify Party B in writing to repair it, and Party B shall start to repair it on the site within 7 days after receiving the notice, and the repair cost shall be borne by the responsible party B. If Party B fails to arrive at the site for repair within 7 days, Party A may entrust other units to repair and timely notify Party B, and Party B shall pay the necessary expenses in time.

Article 17 Cooperate with acceptance of site works

Party B shall cooperate with Party A to carry out acceptance inspection of its work. Party B shall cooperate with Party A or a third party in the construction site when the work of Party A or a third party must be cooperated by Party B.

Article 18 Liquidated damages

If the mutual consent on the schedule of progress cannot be concluded within 3 (three) months, and Party A considers that the progress of the subcontract work already put a seriously negative implications to the overall progress of the Project, Party A shall have the right to unilaterally handover the partial equipment or services under this subcontract to a third Party, and the reasonable cost increased accordingly shall be borne by Party B, only for damages caused by Party B and if Party A has losses towards Employer based on it.

Unless otherwise stipulated in the Subcontract, if the service is not completed on time due to Party B's reasons, Party A may deduct the liquidated damages from the amount payable to Party B, or Party B may pay the liquidated damages through other means, only for damages caused by Party B and if Party A has losses towards Employer based on it.

Party A has the right to deduct the amount due or payment to Party B, or Party B will reimburse it by other means. If the amount is insufficient to cover the compensation that Party B should pay to Party A, Party A has the right to recover the deficiency from Party B.

Party A reserves the right to recover Party B for all losses arising from Party B's performance of this Subcontract. Party A has the right to reduce or pay the remaining project payment of Party B, and has the right to request Party B to return the project payment already received, or Party B to pay by other means, only for damages caused by Party B and if Party A has losses towards Employer based on it.

Article 19 Assignment and subcontracting

Party B shall have right to transfer rights, interests, responsibilities or obligations in the Subcontract, of the supply and/or services to a third party in whole scope of works only with written approval of Party A.

The Party A expressly confirms the right of Party B to pledge the Total Amount of this Agreement to any Bank.

Article 20 Intellectual Property

20.1 In performing the services here under, Party B shall indemnify Party A against any third party's claim of infringement of its patent right, copyright, trademark right, industrial design or other intellectual property rights. If any dispute, lawsuit or claim related to Party B is caused by Party A due to the service provided by Party B, Party B shall handle and guarantee that Party A and its subcontractors shall be free from any loss caused thereby and shall compensate for all expenses and expenses incurred thereby

20.2 Party B shall be liable for any disputes arising from the infringement of patent rights or other intellectual property rights in the use of any materials, equipment, project equipment or construction techniques provided by Party A, except those arising from the compliance with the design or technical standards and requirements provided by Party A. Where Party B uses the patented technology during the implementation of the project, the royalty for the patented technology shall be included in the subcontract price.

Article 21 Liability for breach of Subcontract

21.1 Party B defaults

21.1.1. Case of Party B's breach of Subcontract

The following circumstances that occurred during the performance of the Subcontract were breached by Party B:

(1) Party B violates the provisions of Articles 8 and 19 of this Subcontract, and transfers all or part of the rights of the Subcontract to other persons, or transfers all or part of the Subcontract's obligations to others privately;

(2) Party B violates the provisions of Article 9 of this Subcontract and, without the approval of Party A, privately removes the construction equipment, temporary facilities or materials that have entered the Project site according to the Subcontract;

(3) Party B violates the provisions of Article 9 of this Subcontract by using unqualified materials or project equipment, the quality of the project does not meet the standard requirements, or refuses to remove the unqualified project;

(4) Party B failed to complete this Subcontract in time according to the work schedule (Appendiex 4) and / or Party A's notice, causing or expected delays in the construction period;

(5) During the period of defect liability, Party B failed to repair the defects in the list of defects listed in the project receiving certificate or defects during the defect liability period, and refused to repair it according to the instructions of Party A;

(6) Party B cannot continue to perform or expressly indicates that it has failed to perform or has substantially ceased to perform the Subcontract;

(7) Other circumstances in which Party B does not perform its obligations as agreed in the Subcontract.

(8) Due to Party B's reasons for group petitions and adverse effects; or due to Party B's negative reports of news media at all levels (except for deliberate misrepresentation); or due to Party B's failure to implement EIA report, water conservation plan and approval opinions If the legal liability and the economic punishment responsibility are caused by Party B's reasons and cause reputation and economic losses to Party A, Party B shall be responsible for eliminating the impact, bear the relevant expenses, and compensate Party A for the reputation and economic losses suffered thereby.

21.1.2 Treatment of Party B's default

(1) When Party B has a breach of Subcontract as stipulated in Article 21.1.1(6), Party A may notify Party B to immediately terminate the Subcontract and deal with it according to relevant laws.

(2) If Party B has a breach of Subcontract other than the one specified in Article 21.1.1(6), Party A may issue a notice of rectification to Party B, requesting it to correct within the specified time limit. Party B shall bear the increase in costs and/or delays in the construction period caused by its breach of Subcontract.

(3) Upon inspection, it has been proved that Party B has taken effective measures to correct the breach of Subcontract, and if it has the conditions for resuming work, Party A may issue a resumption of work to notify the reinstatement.
In case the breach of Subcontract due to default of Party B causes breach of Main Contract of Party A to the Employer, Party A has the right to put penalty Party B accordingly, and Party B shall also bear all losses suffered by Party A as a result.

21.1.3. The Subcontract was terminated due to Party B's breach

After Party A issues a notice of rectification 28 days later, Party B still does not correct the breach of Subcontract, Party A may issue a notice of termination to Party B. After the Subcontract is terminated in this condition, Party A may send personnel to the construction site to organize personnel or entrust other third Party to construct. Party A shall continue to complete the needs of the project and shall have the right to detain the materials, equipment and temporary facilities on the site of Party B which Party A paid to Party B. However, this action of Party A does not exempt Party B from liability for breach of Subcontract, nor does it affect Party A's claim rights under the Subcontract.

21.1.4. Valuation, payment and settlement after the Subcontract is lifted

(1) After the Subcontract is terminated, Party A shall agree or determine the value of Party B's actual work completed and the value of materials, construction equipment, project equipment and temporary works provided by Party B in accordance with this Subcontract.

(2) After the Subcontract is terminated, Party A shall suspend all payments to Party B and ascertain the amount of each payment and deduction, including the liquidated damages payable by Party B.

(3) After the Subcontract is terminated, Party A shall, in accordance with Article 22 of this Subcontract, direct Party B to claim the loss caused to Party A due to the termination of the Subcontract.

(4) After confirming the above-mentioned payment, the two parties will issue a final settlement payment certificate and settle all the Subcontract payments.
If Party A and Party B fail to reach an agreement on the settlement after the termination of the Subcontract, the dispute shall be handled in accordance with Article 24 of this Subcontract.

21.1.5. Inability or Unwillingness to Remedy an Emergency

If any incident endangering the safety of the project occurs during the implementation period of the project or during the liability period of defects, Party A shall notify Party B to make remedial measures. If Party B declares that it is unable or unwilling to carry out the action immediately, Party A shall have the right to employ other personnel to make remedial measures if Party B is responsible for it according to design documents and Appendix 1. If such remedy is the obligation of Party B as agreed herein, Party B shall be liable for the amount and/or delay in construction.

21.2 Party A Breaches the Subcontract

21.2.1 Party A's Breach of Subcontract

Party A shall be deemed to have breached the Subcontract if:

(1) Party A fails to pay the advance payment or the Subcontract price as agreed herein, or delays or refuses to approve the payment application and payment certificate, or causes the payment delay;

(2) Party A is unable to continue to perform or explicitly expresses that it does not perform or substantially stops performing the Subcontract;

(3) Party A fails to perform payment obligations agreed herein.

Article 22 Claims and changes

22.1 Party B claims

In accordance with the Subcontract, if Party B considers that it is entitled to additional payment and/or extension of the construction period, it shall file a claim against Party A in accordance with the following procedures, without affecting the incompleted work on site.

Party B shall, within 28 days from the date when it knows or should know the occurrence of the claim, submit a notice of intention to claim to Party A and explain the reasons for the occurrence of the claim. If Party B fails to give notice of intention to claim within 28 days as mentioned above, it shall lose the right to demand additional payment and/or extend the construction period;

Party B shall formally submit the notice of claim to Party A within 28 days after the notice of intention to claim is issued. The notice of claim shall set forth the cause of the claim, the amount of additional payment required and/or the extension of the time limit, together with the necessary records and supporting documents;

In the event of a continuous impact claim, Party B shall, within a reasonable time interval, continue to submit a continuous impact claim notice, stating the actual situation and records of the continuous impact, and indicating the accumulated additional payment amount and/or the days of delay of the construction period;

Party B shall, within 28 days after the occurrence of the claim, submit a final claim notice to Party A stating the additional payment amount required for the final claim and the extended time limit, and provide necessary records and supporting documents.

22.2 Party B's claim handling procedures

(1) Upon receipt of the notice of claim submitted by Party B, Party A shall timely review the contents of the notice of claim, review the records and supporting materials of Party B, and if necessary, Party A may require Party B to submit copies of all original records.

(2) Party A shall, in accordance with the provisions of the main contract, agree or determine the additional payment and/or extension of the construction period, and shall, within 42 days upon receipt of the above notice of claim or further evidence of relevant claim, reply to Party B the result of claim.

(3) If Party B accepts the claim result, Party A shall pay the compensation within 28 days after Party A replies to the claim result. If Party B fails to accept the settlement result, it shall be subject to article 15 hereof.

22.3 Party B's time limit for filing claims

After Party B accepts the final acceptance certificate of the Subcontracted works stipulated in article 13.2.4 of this Subcontract, it shall be deemed that it has no right to make any claim before receiving the Subcontracted works certificate.

22.4 Party A claims

Within 28 days after the occurrence of the claim hereunder, Party A shall promptly notify Party B in writing of the amount of the claim and/or the specific content and basis of Party A's right to extend the liability period for defects. If Party A fails to send a written notice of claim or Party B receives the acceptance certificate within the aforesaid 28 days, Party A will lose the right of claim.

Party A shall determine the amount payable by Party B and/or the extension of the liability period for defects in accordance with the temporary works and relocation works in the main contract. If both parties accept the result of the claim, the amount payable by Party B to Party A may be deducted from the Subcontract price payable by Party A to Party B, or be paid by Party B to Party A separately. If neither Party Accepts the result of the claim, it shall be subject to the provisions of this subcontract on dispute settlement.

22.5 Terms of Subcontract variation:

The Subcontract shall not vary unless upon written consent of Party A.

22.6 Additional works, decrease or increase in quantities and work scope

All decrease or increase in quantities and work scope will be done as respect to the Appendix1 invoices within agreed unit prices.

For the works that were not covered by the subcontract, Party B will prepare offer and only after obtaining approval from Party A, Party B will access the works.

The Subcontract quantity or construction period shall only be adjusted after the Party A agrees such adjustment in written.

22.7 Party B shall do a good job of basic data collection, arrangement and archive keeping, and submit them to Party A for approval as required, against the issues of variation, price adjustment, compensation claim or extension of construction period, if possible.

Article 23 Limitation of Liability

Neither party shall be liable for any lost revenue, lost profits or any other consequential, incidental, special, exemplary or other damages suffered by the other party under any part of this agreement, whether or not the possibility of such lost profits or damages has been disclosed to the other party or could have been reasonably foreseen by it. Under no circumstances shall any of the parties be liable for any amount in excess of the total amount. The liability of either party is unlimited in case of willful damage.

Article 24 Applicable law and dispute resolution

The laws of the Republic of Serbia shall apply to all disputes arising out of or in connection with this Subcontract.

The parties shall first resolve the dispute arising from this Subcontract or related to this Subcontract through friendly negotiation. If such disputes are not resolved through negotiation within 30 days, the disputes or claims arising out of or in connection with this contract, including disputes relating to its validity, breach, termination or nullity, shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce in Paris. The arbitration is final and binding for both Parties. The arbitration cost shall be borne by the Party who lost the case. During the arbitration, both parties shall respectively fulfil their obligations and responsibilities according to the Subcontract.

Article 25 Force Majeure

25.1 Force majeure refers to the scenario in which include but not limited the contractual obligations of one or both of the Parties are not fulfilled due to force majeure such as earthquakes, floods, epidemics, war riots, terrorism, nuclear incidents, etc. during the execution of the Subcontract.

25.2 After the occurrence of the force majeure event, the Party affected by Force majeure shall immediately notify the other Party and promptly take measures to reduce the losses as far as possible, and the Parties shall assist each other in taking measures. The Party B should suspend the work when Party A considers necessary. Within 48 hours after the end of the force majeure event, Party B shall notify Party A of the damage and loss, and the estimated cost of cleaning and repair. In case the force majeure event continues to occur, Party B shall notify Party A of the damages and loss every 7 days. Within fourteen (14) days after the end of force majeure, Party B shall submit a formal report and related information on the cleaning and repair costs to Party A.

25.3 A party subject to force majeure shall be exempt from liability for breach of Subcontract, but active measures shall be taken to minimize losses to the other party.

25.4 If a party fails to perform the Subcontract in accordance with the various time limits specified in this Subcontract, and force majeure occurs during that period, the party shall not be exempted from liability.

25.5 If, due to force majeure, one party has or will not be able to perform any of its obligations under this Subcontract, the party shall notify the other party of the event or circumstances that constitute force majeure and specify the obligations and work that have been or will not be performed. The party shall give notice within 14 days of the occurrence of the corresponding event or situation that is discovered (or should be discovered) that constitutes force majeure. After the notice is given, the party shall waive the performance of such obligations during the duration of such force majeure.

Article 26 Validity, Suspension and Termination of the Subcontract

26.1 The Subcontract takes effect from the date when the Subcontract is signed by authorized signatories of all Parties, stamped with the corporate seals and after cumulative fulfillment of the following conditions

(a) submission of detailed PZI design documentation by Party A and documents by Article 7.1, necessary for the realization of the Subcontract.

(b) Mutually signed and agreed Time Schedule in Appendix 4.

(c) Received the advance payment guarantee that issued by Party B and advance payment from Party A to Party B account.

26.2 Suspension

If the Project is suspended or postponed due to policy changes or other reasons, the Subcontract cannot be continued, it shall be deemed to be suspended. After the termination of the Subcontract, Party B shall properly complete the completed project and the handover of purchased materials, equipment protection and the project, and evacuate the construction machinery and personnel from the site as required by Party
A. Party A shall provide necessary conditions for Party B to evacuate the site and pay the completed project works and delivered materials with prices as agreed herein in Appendix 1. Meanwhile, Party B shall submit all the completed project materials to Party A.

If Party A considers that the project meets the conditions for resumption of construction after assessment, Party B shall continue to perform the obligations set forth herein as required by Party A.

26.3 Termination

This Subcontract shall be terminated under any of the following circumstances:

(1) After Party A confirms in writing that Party B has not fulfilled all the obligations and responsibilities of Party B in accordance with this Subcontract;

(2) The Subcontract becomes impossible to be executed due to force majeure;

(3) Party A or Party B unilaterally terminates this Subcontract according to relevant provisions hereof;

(4) The Main Contract between the Employer and Party A is cancelled;

(5) Both Parties agree to cancel the Subcontract in written, if signed by the legal representatives or authorized representatives of all parties and sealed by the parties.

(6) Either party commits a material breach of Subcontract and still refuses to perform within a reasonable grace period upon written notice of the non-breaching party;

(7) Either party commits fraud in the execution of the Subcontract;

(8) Either party is bankrupt or insolvent.
The termination of this Subcontract does not relieve either party of the right to claim damages (if any) from the other Party. According to law or this Subcontract and to demand liquidated damages or other liabilities for breach of Subcontract from the other party.

Article 27 Quantity and validity of Subcontract Copies

This Subcontract is made in in 6 (six) copies, with Party A holding four (4) copies and Party B'S holding two (2) copies each. This Subcontract shall come into force after it is signed by the legal representatives or authorized representatives of all parties and sealed by the parties. This Subcontract expires after the parties have fulfilled all obligations (including liability for defects) stipulated in this Subcontract.

This Subcontract may be changed by signing of an Annex to this Subcontract. In order for the Annex to come into force it has to be signed by the legal representatives or authorized representatives of all parties and sealed by the parties.

Article 28 Certificates and documents

Party B shall provide relevant certificates and documents as required in this Subcontract for the equipment and materials provided by Party B per Appendix 1.

Article 29 Notice

29.1 All notices, requests, instructions, documents and any other type of communication between the parties shall be made in accordance with the following contact information (contact person, appropriate address/email address, telephone number):

Party A's notification address:
Contact: Zhu Yubao
Address: Belgrade, Belgrade-Zemun, Majevicka 2m, Serbia
Email address:
crsc.xsxmb@gmail.com
Telephone: +381 66 888 5398

Both Party B's addresses shall be used for the purpose of notification:
Contact person 1: Mladen Gajcanski
Address: Volgina 15
E-mail address: mladen.gajcanski@pupin.rs
Telephone: +381631069068

Contact person 2: Ljubomir Becejac
Address: Volgina 15
E-mail address: ljubomir.becejac@pupin.rs
Telephone: +381631069220

29.2 All notices, requests, instructions, documents and any other type of communication between the parties hereto shall be in writing, except for short notices and other communications unrelated to the performance of the basic obligations hereunder, including but not limited to arranging meetings between the parties.

29.3 Notices and other communications shall be deemed to be delivered to Party B under the following circumstances:

(1) If delivered by registered mail or express, sign the receipt or

(2) In the case of E-mail, when a message appears in the recipient's inbox (received) folder. The recipient must acknowledge receipt of the email.

29.4 If the contact information mentioned in clause 29.1 is changed, the changed party shall be obliged to notify the other party on the next most recent business day.

For and on behalf of Party A:	**For and on behalf of Party B:**
CRSC INTERNATIONAL CO., LTD. BEOGRAD	INSTITUT MIHAJLO PUPIN BEOGRAD
Mr. Yang Xu **Legal Representative of the branch office**	**Nikola Tomašević, Ph.D.El.Eng** **Legal Representative and General Director**

Appenddix 1- BoQ

SUMMERY			
No.	**Project**	**Drawing no.**	**Price (USD)**
Part - 5	**DISPATCHER SYSTEM - Material**	**5.4**	**3,212,456.55**
Part - 6	**DISPATCHER SYSTEM - Works**	**5.4**	**860,572.93**
Part - 8	**RDV System**	**5.8.1**	**648,622.08**
		Total USD without VAT	**4,721,651.56**

CRSC INTERNATIONAL CO., LTD. BEOGRAD

Party A (CRSC)

INSTITUT MIHAJLO PUPIN BEOGRAD

Party B (IMP)

PART-5
NOVI SAD - SUBOTICA
BILL OF QUANTITY
BOOK 5.4
LOCAL CABLE NETWORKS NAD DISPATCHER DEVICES

Item	Description	UoM.	Qty	Unit price	TOTAL
				USD	USD
5.4.02	**DISPATCHER DEVICES NOVI SAD - SUBOTICA**				
5.4.02.01	**Central traffic dispatcher Novi Sad - Subotica**				
5.4.02.01.01	**Material**				
5.4.02.01.01.01	Central dispatcher device complete with translators and transformers	pcs.	1	29,397.01	29,397.01
5.4.02.01.01.02	Pulse repeater	pcs.	1	1,782.60	1,782.60
5.4.02.01.01.03	120 push bottons console	pcs.	1	10,512.66	10,512.66
5.4.02.01.01.04	Additional 108 call-respodn push button console		2	11,702.40	23,404.80
5.4.02.02	**Central electric traction dispatcher Novi sad - Indjija and Novi Sad - Subotica**				
5.4.02.02.01	**Материјал**				
5.4.02.02.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.02.02.01.02	27-pushbuttons console	pcs.	1	4,052.47	4,052.47
5.4.02.02.01.03	Pulse repeater	pcs.	2	1,782.60	3,565.20
5.4.02.02.01.04	Central dispatcher device complete with translators and transformers	pcs.	2	29,397.01	58,794.02
5.4.02.03	**Station dispatcher device Novi Sad**				
5.4.02.03.01	**Material**				
5.4.02.03.01.01	80-pushbuttons console	pcs.	1	5,379.03	5,379.03
5.4.02.03.01.02	Central deivce for 80- key console, 8 + 12 CB lines , 2 ATA connections 11 LB connections with 8 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.03.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	2	26,269.64	52,539.28
5.4.02.03.01.04	4-wire command unit	pcs.	2	5,941.96	11,883.92
5.4.02.03.01.05	4-wire selective translator with ca 8 CB connections	pcs.	1	9,947.04	9,947.04
5.4.02.03.01.06	4-wire selective translator with ca 12 CB connections	pcs.	1	12,109.06	12,109.06
5.4.02.03.01.07	2-wire selective translator	pcs.			
5.4.02.03.01.08	4-wire selective translator for electric traction dispatcher	pcs.	2	4,753.56	9,507.12
5.4.02.03.01.09	Computer based 24 channel voice recorder	pcs.	1	30,840.70	30,840.70
5.4.02.03.01.10	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.03.01.11	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.03.01.12	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	2	875.66	1,751.32
5.4.02.03.01.13	Transformer T2 600:1.200 Ω	pcs.	18	99.88	1,797.84
5.4.02.03.01.14	Transformee T3 2.000:5.000 Ω	pcs.	2	187.65	375.30
5.4.02.03.01.15	Set of tools, instruments and accessories and a compter with software Комплет алата, инструмената, прибора и рачунар са софтвером	set	1	2,501.88	2,501.88
5.4.02.03.01.16	Telephone at the entry signal to be mounted on the signal post	pcs.	12	3,565.17	42,782.04
5.4.02.03.01.17	Telephone at the exit signal to be mounted on the signal post	pcs.	8	3,440.08	27,520.64
5.4.02.03.01.18	LB telephone / wall mount	pcs.	2	809.60	1,619.20
5.4.02.03.01.19	Loud tone bell	pcs.	3	375.36	1,126.08
5.4.02.03.01.20	Auxiliary telephpne 12-lines	pcs.	1	1,376.02	1,376.02
5.4.02.03.01.21	Dispatcher device for the machinery dispatcher	set	1	7,801.60	7,801.60
5.4.02.03.01.22	JH(St)H 2x2x0.8	m	260		

PART-5
NOVI SAD - SUBOTICA
BILL OF QUANTITY
BOOK 5.4
LOCAL CABLE NETWORKS NAD DISPATCHER DEVICES

5.4.02.03.01.23	JH(St)H 10x2x0.8	m			
5.4.02.03.01.24	JH(St)H 20x2x0.8	m	280		
5.4.02.04	**Station dispatcher device Sajlovo**				
5.4.02.04.01	**Material**				
5.4.02 04.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.02 04.01.02	Central deivce for 45- key console, 10 CB lines , 2 ATA connections 7 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02 04.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02 04.01.04	4-wire command unit	pcs.		5,941.96	
5.4.02 04.01.05	4-wire selective translator with ca 10 CB connections	pcs.	1	9,947.04	9,947.04
5.4.02 04.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02 04.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02 04.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02 04.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.		875.66	
5.4.02 04.01.10	Transformer T2 600:1.200 Ω	pcs.	3	100.09	300.27
5.4.02 04.01.11	Transformee T3 2.000:5.000 Ω	pcs.	8	187.65	1,501.20
5.4.02 04.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02 04.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	8	3,566.15	28,529.20
5.4.02 04.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	4	3,440.08	13,760.32
5.4.02 04.01.15	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80
5.4.02 04.01.16	LB telephone / wall mount	pcs.	1	809.60	809.60
5.4.02 04.01.17	Loud tone bell	pcs.	2	375.36	750.72
5.4.02.04.01.19	JH(St)H 2x2x0.8	m	70		
5.4.02.04.01.20	JH(St)H 10x2x0.8	m	30		
5.4.02.04.01.21	JH(St)H 20x2x0.8	m	35		
5.4.02.05	**Station dispatcher device Rumenka**				
5.4.02.05.01	**Material**				
5.4.02.05.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.02.05.01.02	Central deivce for 45- key console, 11 CB lines , 2 ATA connections 7 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.05.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.05.01.04	4-wire command unit	pcs.	1	5,941.96	5,941.96
5.4.02.05.01.05	4-wire selective translator with ca 11 CB connections	pcs.	1	11,008.23	11,008.23
5.4.02.05.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.05.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.05.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.05.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.05.01.10	Transformer T2 600:1.200 Ω	pcs.	3	99.88	299.64
5.4.02.05.01.11	Transformee T3 2.000:5.000 Ω	pcs.	10	187.65	1,876.50
5.4.02.05.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88

PART-5
NOVI SAD - SUBOTICA
BILL OF QUANTITY
BOOK 5.4
LOCAL CABLE NETWORKS NAD DISPATCHER DEVICES

5.4.02.05.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	6	3,565.17	21,391.02
5.4.02.05.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	5	3,440.08	17,200.40
5.4.02.05.01.15	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80
5.4.02 05.01.16	LB telephone / wall mount	pcs.	1	809.60	809.60
5.4.02 05.01.17	Loud tone bell	pcs.	3	375.36	1,126.08
5.4.02.05.01.18	JH(St)H 2x2x0.8	m	70		
5.4.02.05.01.19	JH(St)H 10x2x0.8	m	30		
5.4.02.05.01.20	JH(St)H 20x2x0.8	m	35		
5.4.02.06	**Station dispatcher device Kisac**				
5.4.02.06.01	**Material**				
5.4.02.06.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.02.06.01.02	Central deivce for 45- key console, 11 CB lines , 2 ATA connections 7 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.06.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.06.01.04	4-wire command unit	pcs.	1	5,941.96	5,941.96
5.4.02.06.01.05	4-wire selective translator with ca 11 CB connections	pcs.	1	11,008.23	11,008.23
5.4.02.06.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.06.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.06.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.06.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.06.01.10	Transformer T2 600:1.200 Ω	pcs.	2	99.88	199.76
5.4.02.06.01.11	Transformee T3 2.000:5.000 Ω	pcs.	10	187.65	1,876.50
5.4.02.06.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.06.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	4	3,565.17	14,260.68
5.4.02.06.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	4	3,440.08	13,760.32
5.4.02.06.01.15	Auxiliary telephpne 6-lines	pcs.	1	1,462.80	1,462.80
5.4.02.06.01.16	LB telephone / wall mount	pcs.	2	809.60	1,619.20
5.4.02.06.01.17	CB telephone / wall mount	pcs.	1	717.60	717.60
5.4.02.06.01.18	Loud tone bell	pcs.	2	375.36	750.72
5.4.02.06.01.19	JH(St)H 2x2x0.8	m	90		
5.4.02.06.01.20	JH(St)H 10x2x0.8	m	35		
5.4.02.06.01.21	JH(St)H 20x2x0.8	m	40		
5.4.02.07	**Station dispatcher device Stepanovicevo**				
5.4.02.07.01	**Material**				
5.4.02.07.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.02.07.01.02	Central deivce for 45- key console, 11 CB lines , 2 ATA connections 6 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.07.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.07.01.04	4-wire command unit	pcs.	1	5,942.57	5,942.57
5.4.02.07.01.05	4-wire selective translator with ca 11 CB connections	pcs.	1	10,727.20	10,727.20
5.4.02.07.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56

PART-5
NOVI SAD - SUBOTICA
BILL OF QUANTITY
BOOK 5.4
LOCAL CABLE NETWORKS NAD DISPATCHER DEVICES

5.4.02.07.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.07.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.07.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.07.01.10	Transformer T2 600:1.200 Ω	pcs.	2	99.88	199.76
5.4.02.07.01.11	Transformee T3 2.000:5.000 Ω	pcs.	10	187.65	1,876.50
5.4.02.07.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.07.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	4	3,565.17	14,260.68
5.4.02.07.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	4	3,440.08	13,760.32
5.4.02.07.01.15	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80
5.4.02.06.01.16	LB telephone / wall mount	pcs.	1	809.60	809.60
5.4.02.06.01.17	Loud tone bell	pcs.	2	375.36	750.72
5.4.02.07.01.18	JH(St)H 2x2x0.8	m	85		
5.4.02.07.01.19	JH(St)H 10x2x0.8	m	30		
5.4.02.07.01.20	JH(St)H 20x2x0.8	m	35		
5.4.02.08	**Station dispatcher device Zmajevo**				
5.4.02.08.01	**Material**				
5.4.0208.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.0208.01.02	Central deivce for 45- key console, 8 CB lines , 2 ATA connections 6 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.0208.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.0208.01.04	4-wire command unit	pcs.	1	5,942.57	5,942.57
5.4.0208.01.05	4-wire selective translator with ca 8 CB connections	pcs.	1	8,776.80	8,776.80
5.4.0208.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.0208.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.0208.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.0208.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.0208.01.10	Transformer T2 600:1.200 Ω	pcs.	2	99.88	199.76
5.4.0208.01.11	Transformee T3 2.000:5.000 Ω	pcs.	10	187.65	1,876.50
5.4.0208.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.0208.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	4	3,565.17	14,260.68
5.4.0208.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	4	3,440.08	13,760.32
5.4.0208.01.15	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80
5.4.02.06.01.16	LB telephone / wall mount	pcs.	2	809.60	1,619.20
5.4.02.06.01.17	CB telephone / wall mount	pcs.	1	717.60	717.60
5.4.02.06.01.18	Loud tone bell	pcs.	2	375.36	750.72
5.4.02.08.01.19	JH(St)H 2x2x0.8	m	90		
5.4.02.08.01.20	JH(St)H 10x2x0.8	m	35		
5.4.02.08.01.21	JH(St)H 20x2x0.8	m	40		
5.4.02.09	**Station dispatcher device Vrbas Novi**				
5.4.02.09.01	**Material**				
5.4.02.09.01.01	80-pushbuttons console	pcs.	1	5,379.03	5,379.03

PART-5
NOVI SAD - SUBOTICA
BILL OF QUANTITY
BOOK 5.4
LOCAL CABLE NETWORKS NAD DISPATCHER DEVICES

5.4.02.09.01.02	Central deivce for 45- key console, 12 CB lines , 2 ATA connections 12 LB connections with 9 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.09.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.09.01.04	4-wire command unit	pcs.	1	5,941.96	5,941.96
5.4.02.09.01.05	4-wire selective translator with ca 12 CB connections	pcs.	1	11,008.23	11,008.23
5.4.02.09.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.09.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.09.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.09.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.09.01.10	Transformer T2 600:1.200 Ω	pcs.	5	99.88	499.40
5.4.02.09.01.11	Transformee T3 2.000:5.000 Ω	pcs.	13	187.65	2,439.45
5.4.02.09.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.09.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	6	3,566.15	21,396.90
5.4.02.09.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	6	3,440.08	20,640.48
5.4.02.06.01.16	LB telephone / wall mount	pcs.	2	809.60	1,619.20
5.4.02.06.01.17	Loud tone bell	pcs.	3	375.36	1,126.08
5.4.02.06.01.18	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80
5.4.02.06.01.19	Computer based 24 channel voice recorder	pcs.	1	30,840.70	30,840.70
5.4.02.09.01.20	JH(St)H 2x2x0.8	m	50		
5.4.02.09.01.21	JH(St)H 10x2x0.8	m	15		
5.4.02.09.01.22	JH(St)H 20x2x0.8	m	10		
5.4.02.10	**Station dispatcher device Vrbas**				
5.4.02.10.01	**Material**				
5.4.02.10.01.01	27-pushbuttons console	pcs.	1	4,052.47	4,052.47
5.4.02.10.01.02	Central deivce for 27- key console, 5 CB lines , 2 ATA connections 7 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.10.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.10.01.04	4-wire command unit	pcs.			
5.4.02.10.01.05	4-wire selective translator with ca 5 CB connections	pcs.	1	6,046.24	6,046.24
5.4.02.10.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.10.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.10.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.10.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.			
5.4.02.10.01.10	Transformer T2 600:1.200 Ω	pcs.	8	99.88	799.04
5.4.02.10.01.11	Transformee T3 2.000:5.000 Ω	pcs.	4	187.65	750.60
5.4.02.10.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.10.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	3	3,565.17	10,695.51
5.4.02.10.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	2	3,440.08	6,880.16
5.4.02.10.01.15	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80

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5.4.02.10.01.16	LB telephone / wall mount	pcs.	2	809.60	1,619.20
5.4.02.10.01.17	Loud tone bell	pcs.	1	375.36	375.36
5.4.02.10.01.18	JH(St)H 2x2x0.8	m	90		
5.4.02.10.01.19	JH(St)H 10x2x0.8	m	35		
5.4.02.10.01.20	JH(St)H 20x2x0.8	m	40		
5.4.02.11	**Station dispatcher device Lovcenac**				
5.4.02.11.01	**Material**				
5.4.02.11.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.02.11.01.02	Central deivce for 45- key console, 8 CB lines , 2 ATA connections 6 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.11.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.11.01.04	4-wire command unit	pcs.	1	5,942.57	5,942.57
5.4.02.11.01.05	4-wire selective translator with ca 8 CB connections	pcs.	1	8,776.80	8,776.80
5.4.02.11.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.11.01.07	2/4wirw amplifier	kom.	2	3,127.34	6,254.68
5.4.02.11.01.08	Pulse repeater 5027a	kom.	2	1,782.60	3,565.20
5.4.02.11.01.09	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.11.01.10	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.11.01.11	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.11.01.12	Transformer T2 600:1.200 Ω	pcs.	10	99.88	998.80
5.4.02.11.01.13	Transformee T3 2.000:5.000 Ω	pcs.	10	187.65	1,876.50
5.4.02.11.01.14	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.11.01.15	Telephone at the entry signal to be mounted on the signal post	pcs.	4	3,565.17	14,260.68
5.4.02.11.01.16	LB telephone / wall mount	pcs.	2	809.60	1,619.20
5.4.02.11.01.17	CB telephone / wall mount	pcs.	1	717.60	717.60
5.4.02.11.01.18	Loud tone bell	pcs.	2	375.36	750.72
5.4.02.11.01.19	Telephone at the exit signal to be mounted on the signal post	pcs.	4	3,440.08	13,760.32
5.4.02.11.01.20	Auxiliary telephpne 6-lines	pcs.	1	1,462.80	1,462.80
5.4.02.11.01.21	JH(St)H 2x2x0.8	m	90		
5.4.02.11.01.22	JH(St)H 10x2x0.8	m	20		
5.4.02.11.01.23	JH(St)H 20x2x0.8	m	25		
5.4.02.12	**Station dispatcher device Backa Topola**				

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5.4.02.12.01	**Material**				
5.4.02.12.01.01	45-pushbuttons console	pcs.	1	4,128.02	4,128.02
5.4.02.12.01.02	Central deivce for 45- key console, 8 CB lines , 2 ATA connections 6 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.12.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.12.01.04	4-wire command unit	pcs.	1	5,942.57	5,942.57
5.4.02.12.01.05	4-wire selective translator with ca 8 CB connections	pcs.	1	8,776.80	8,776.80
5.4.02.12.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.12.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.12.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.12.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.12.01.10	Transformer T2 600:1.200 Ω	pcs.	2	99.88	199.76
5.4.02.12.01.11	Transformee T3 2.000:5.000 Ω	pcs.	10	187.65	1,876.50
5.4.02.12.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.12.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	4	3,565.17	14,260.68
5.4.02.12.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	4	3,440.08	13,760.32
5.4.02.12.01.15	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80
5.4.02.12.01.16	LB telephone / wall mount	pcs.	2	809.60	1,619.20
5.4.02.12.01.17	CB telephone / wall mount	pcs.	1	717.60	717.60
5.4.02.12.01.18	Loud tone bell	pcs.	2	375.36	750.72
5.4.02.12.01.19	JH(St)H 2x2x0.8	m	85		
5.4.02.12.01.20	JH(St)H 10x2x0.8	m	20		
5.4.02.12.01.21	JH(St)H 20x2x0.8	m	25		
5.4.02.13	**Station dispatcher device Zednik**				
5.4.02.13.01	**Material**				
5.4.02.13.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.02.13.01.02	Central deivce for 45- key console, 8 CB lines , 2 ATA connections 6 LB connections with 4 call selectors	pcs.	1	29,396.43	29,396.43
5.4.02.13.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.13.01.04	4-wire command unit	pcs.	1	5,942.57	5,942.57
5.4.02.13.01.05	4-wire selective translator with ca 8 CB connections	pcs.	1	8,776.80	8,776.80
5.4.02.13.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.13.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.13.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.13.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.13.01.10	Transformer T2 600:1.200 Ω	pcs.	2	100.37	200.74
5.4.02.13.01.11	Transformee T3 2.000:5.000 Ω	pcs.	10	187.65	1,876.50
5.4.02.13.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.13.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	4	3,565.17	14,260.68

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5.4.02.13.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	4	3,440.08	13,760.32
5.4.02.13.01.15	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80
5.4.02.12.01.16	LB telephone / wall mount	pcs.	2	809.60	1,619.20
5.4.02.13.01.17	CB telephone / wall mount	pcs.	1	717.60	717.60
5.4.02.13.01.17	Loud tone bell	pcs.	2	375.36	750.72
5.4.02.13.01.19	JH(St)H 2x2x0.8	m	90		
5.4.02.13.01.20	JH(St)H 10x2x0.8	m	35		
5.4.02.13.01.21	JH(St)H 20x2x0.8	m	40		
5.4.02.14	**Station dispatcher device Naumovicevo**				
5.4.02.14.01	**Material**				
5.4.02.14.01.01	45-pushbuttons console	pcs.	1	4,128.10	4,128.10
5.4.02.14.01.02	Central deivce for 45- key console, 11 CB lines , 2 ATA connections 7 LB connections with 4 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.14.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.14.01.04	4-wire command unit	pcs.	1	5,942.57	5,942.57
5.4.02.14.01.05	4-wire selective translator with ca 11 CB connections	pcs.	1	10,727.20	10,727.20
5.4.02.14.01.06	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.14.01.07	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41
5.4.02.14.01.08	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.14.01.09	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.14.01.10	Transformer T2 600:1.200 Ω	pcs.	3	100.09	300.27
5.4.02.14.01.11	Transformee T3 2.000:5.000 Ω	pcs.	10	187.65	1,876.50
5.4.02.14.01.12	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.14.01.13	Telephone at the entry signal to be mounted on the signal post	pcs.	5	3,565.17	17,825.85
5.4.02.14.01.14	Telephone at the exit signal to be mounted on the signal post	pcs.	6	3,440.08	20,640.48
5.4.02.14.01.15	Auxiliary telephpne 7-lines	pcs.	1	1,462.80	1,462.80
5.4.02.14.01.16	LB telephone / wall mount	pcs.	1	809.60	809.60
5.4.02.14.01.17	Loud tone bell	pcs.	3	375.36	1,126.08
5.4.02.14.01.18	JH(St)H 2x2x0.8	m	180		
5.4.02.14.01.19	JH(St)H 10x2x0.8	m	50		
5.4.02.14.01.20	JH(St)H 20x2x0.8	m	55		
5.4.02.15	**Station dispatcher device Subotica**				
5.4.02.15.01	**Material**				
5.4.02.15.01.01	80-pushbuttons console	pcs.	1	5,379.03	5,379.03
5.4.02.15.01.02	Central deivce for 80- key console, 30 CB lines , 2 ATA connections 13 LB connections with 9 call selectors	pcs.	1	29,397.01	29,397.01
5.4.02.15.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	pcs.	1	26,269.64	26,269.64
5.4.02.15.01.04	4-wire command unit	pcs.	1	5,941.96	5,941.96
5.4.02.15.01.05	4-wire selective translator with ca 17 CB connections	pcs.	1	13,320.26	13,320.26
5.4.02.15.01.06	4-wire selective translator with ca 33 CB connections	pcs.	1	11,702.40	11,702.40
5.4.02.15.01.07	4-wire selective translator for electric traction dispatcher	pcs.	1	4,753.56	4,753.56
5.4.02.15.01.08	Rectifier 230 V/24 V/10 A + sealed accu battery 24 V/120 Ah- poles pd floating potential	pcs.	1	1,876.41	1,876.41

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5.4.02.15.01.09	Feeding unit for powering station telephone cabinets (TUS,TIS) - connected to 24 V=	pcs.	1	875.66	875.66
5.4.02.15.01.10	Two-way feeding unit for emote powering of ATB telephone cabinets - connected t0 24 V=	pcs.	1	875.66	875.66
5.4.02.15.01.11	Transformer T2 600:1.200 Ω	pcs.	12	99.88	1,198.56
5.4.02.15.01.12	Transformee T3 2.000:5.000 Ω	pcs.	7	187.65	1,313.55
5.4.02.15.01.13	Set of tools, instruments and accessories and a compter with software	pcs.	1	2,501.88	2,501.88
5.4.02.15.01.14	Telephone at the entry signal to be mounted on the signal post	pcs.	8	3,565.17	28,521.36
5.4.02.15.01.15	Telephone at the exit signal to be mounted on the signal post (5 exit signal telephones functioning as entry signal telephones)	pcs.	22	3,440.08	75,681.76
5.4.02.15.01.16	LB telephone / wall mount	pcs.	3	809.60	2,428.80
5.4.02.15.01.17	LB telephone / desk top	pcs.	1	809.60	809.60
5.4.02.15.01.18	CB telephone / wall mount	pcs.	1	717.60	717.60
5.4.02.15.01.19	CB telephone / desk top	pcs.	2	717.60	1,435.20
5.4.02.15.01.20	Loud tone bell	pcs.	4	375.36	1,501.44
5.4.02.15.01.21	Auxiliary telephpne 12-lines	pcs.	1	1,560.32	1,560.32
5.4.02.15.01.22	24 channel voice recorder, computer based	pcs.	1	30,840.70	30,840.70
5.4.02.15.01.23	Reduced vrsion of the station device with console, central unit and power supply ca ТК пултом - for the external station dispatcher and the dispatcher of the freight station	pcs.	2	29,256.00	58,512.00
5.4.02.15.01.24	JH(St)H 2x2x0.8	m	270		
5.4.02.15.01.25	JH(St)H 10x2x0.8	m	35		
5.4.02.15.01.26	JH(St)H 20x2x0.8	m	40		
5.4.02.16	**Border hut + border SPN**				
5.4.02.16.01	**Material**				
5.4.02.16.01.01	27-pushbuttons console	ком.	1	4,052.47	4,052.47
5.4.02.16.01.02	,Central deivce for 27- key console, 1 CB lines, 5 LB connections with 3 call selectors	ком.	1	29,397.01	29,397.01
5.4.02.16.01.03	Optical transmission deviced comprising optical tranceivers (II window - 1.320 nm), AD-Drop multiplexor, AD/DA converters and interfaces	ком	1	26,269.64	26,269.64
5.4.02.16.01.04	4-wire selective translator for electric traction dispatcher	ком.	1	4,753.56	4,753.56
5.4.02.16.01.05	Indoor cable terminal box KG 10×2 with fuses KG 10×2 with fastening accessories for installation in the border hut	ком.	1	146.28	146.28
5.4.02.16.01.06	Installation gear in the border SPN for installation of a cable twrminal box with fuses and transfprmer	ком.	1	975.20	975.20
5.4.02.16.01.07	Indoor cable terminal box KG 10×2 with fuses KG 10×2	ком.	1	105.01	105.01
5.4.02.16.01.08	Transformer T2 600:1.200 Ω	ком.	6	99.88	599.28
5.4.02.16.01.09	Loud tone bell to be monted on the wall of the border hut	ком.	1	375.28	375.28
5.4.02.16.01.10	LB telephone / wall mount	pcs.	1	809.60	809.60
5.4.02.16.01.11	CB telephone / wall mount	pcs.	1	717.60	717.60
5.4.02.16.01.12	Cable PP 41 2×2,5 mm^2	m	60	2.34	140.40
5.4.02.16.01.13	Cable TK 39 P 3x4x0,8	m	60	1.88	112.80
5.4.02.17	**ATB telephones Novi Sad ß Subotica**				
5.4.17-1	**Subsection Novi Sad - Rumenka**				
5.4.17-1.01	**Material**				
5.4.17-1.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	8	7,505.62	60,044.96

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5.4.17-1.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	2	1,287.26	2,574.52
5.4.17-1.01.03	Cable terminal box KG 30×2	pcs.	2	218.33	436.66
5.4.17-1.01.04	Strip 10×2 for gel filled cables	pcs.	8	40.72	325.76
5.4.17-1.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	2	202.84	405.68
5.4.17-2	**Subsection Rumenka - Kisač**				
5.4.17-2.01	**Material**				
5.4.17-2.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	8	7,505.62	60,044.96
5.4.17-2.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	2	1,287.26	2,574.52
5.4.17-2.01.03	Cable terminal box KG 30×2	pcs.	2	218.33	436.66
5.4.17-2.01.04	Strip 10×2 for gel filled cables	pcs.	8	40.72	325.76
5.4.17-2.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	2	202.84	405.68
5.4.17-3	**Subsection Kisač - Stepanovićevo**				
5.4.17-3.01	**Material**				
5.4.17-3.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	8	7,505.62	60,044.96
5.4.17-3.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	2	1,287.26	2,574.52
5.4.17-3.01.03	Cable terminal box KG 30×2	pcs.	2	218.33	436.66
5.4.17-3.01.04	Strip 10×2 for gel filled cables	pcs.	8	40.72	325.76
5.4.17-3.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	2	202.84	405.68
5.4.17-4	**Subsection Stepanovićevo - Zmajevo**				
5.4.17-4.01	**Material**				
5.4.17-4.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	4	7,505.62	30,022.48
5.4.17-4.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	1	1,287.26	1,287.26
5.4.17-4.01.03	Cable terminal box KG 30×2	pcs.	1	218.33	218.33
5.4.17-4.01.04	Strip 10×2 for gel filled cables	pcs.	4	40.72	162.88
5.4.17-4.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	1	202.84	202.84
5.4.17-5	**Subsection Zmajevo - Vrbas Nova**				
5.4.17-5.01	**Material**				
5.4.17-5.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	16	7,505.62	120,089.92
5.4.17-5.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	4	1,287.26	5,149.04

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5.4.17-5.01.03	Cable terminal box KG 30×2	pcs.	4	218.33	873.32
5.4.17-5.01.04	Strip 10×2 for gel filled cables	pcs.	16	40.72	651.52
5.4.17-5.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	4	202.84	811.36
5.4.17-6	**Subsection Vrbas Nova - Lovćenac-Mali Iđoš**				
5.4.17-6.01	**Material**				
5.4.17-6.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	24	7,505.62	180,134.88
5.4.17-6.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	6	1,287.26	7,723.56
5.4.17-6.01.03	Cable terminal box KG 30×2	pcs.	6	218.33	1,309.98
5.4.17-6.01.04	Strip 10×2 for gel filled cables	pcs.	24	40.72	977.28
5.4.17-6.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	6	202.84	1,217.04
5.4.17-7	**Subsection Lovćenac-Mali Iđoš - Bačka Palanka**				
5.4.17-7.01	**Material**				
5.4.17-7.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	20	7,505.62	150,112.40
5.4.17-7.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	5	1,287.26	6,436.30
5.4.17-7.01.03	Cable terminal box KG 30×2	pcs.	5	218.33	1,091.65
5.4.17-7.01.04	Strip 10×2 for gel filled cables	pcs.	20	40.72	814.40
5.4.17-7.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	5	202.84	1,014.20
5.4.17-8	**Subsection Bačka Palanka - Žednik**				
5.4.17-8.01	**Material**				
5.4.17-8.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	20	7,505.62	150,112.40
5.4.17-8.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	5	1,287.26	6,436.30
5.4.17-8.01.03	Cable terminal box KG 30×2	pcs.	5	218.33	1,091.65
5.4.17-8.01.04	Strip 10×2 for gel filled cables	pcs.	20	40.72	814.40
5.4.17-8.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	5	202.84	1,014.20
5.4.17-9	**Subsection Žednik - Naumovićevo**				
5.4.17-9.01	**Material**				
5.4.17-9.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	12	7,505.62	90,067.44
5.4.17-9.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	3	1,287.26	3,861.78
5.4.17-9.01.03	Cable terminal box KG 30×2	pcs.	3	218.33	654.99
5.4.17-9.01.04	Strip 10×2 for gel filled cables	pcs.	12	40.72	488.64

PART-5 NOVI SAD - SUBOTICA BILL OF QUANTITY BOOK 5.4 LOCAL CABLE NETWORKS NAD DISPATCHER DEVICES					
5.4.17-9.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	3	202.84	608.52
5.4.17-10	**Subsection Naumovićevo - Subotica**				
5.4.17-10.01	**Material**				
5.4.17-10.01.01	ATB telephpne to be monted on the signaal pole comprising thebdispatcher translator	pcs.	12	7,505.62	90,067.44
5.4.17-10.01.02	Cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, complete with earthing strand for connection to the closer rail L=5 m/95 mm2, with eyelet Ø10 mm	pcs.	3	1,287.26	3,861.78
5.4.17-10.01.03	Cable terminal box KG 30×2	pcs.	3	218.33	654.99
5.4.17-10.01.04	Strip 10×2 for gel filled cables	pcs.	12	40.72	488.64
5.4.17-10.01.07	Thermoshrinking joint to connect the branch cable of the existing line side cable with the cable TK 59 M 10x4x0,8	pcs.	3	202.84	608.52
5.4.02.19	**Interface towards the existing RAT exchange**				
5.4.02.19.01	Interface towards the existing RAT exchange - material + works	set	1	4,600.08	4,600.08
	TOTAL(USD):				**3,212,456.55**

PART - 6 NOVI SAD - SUBOTICA BILL OF QUANTITY					
Item	Description	UoM.	Qty	Unit price	TOTAL
				USD	USD
5.4.02	DISPATCHER DEVICES NOVI SAD - SUBOTICA				
5.4.02.01	Central traffic dispatcher Novi Sad - Subotica				
5.4.02.01.02	Works				
5.4.02.01.02.01	Installation, testing and putting into operation of the central dispatcher device	set	1	15,272.40	15,272.40
5.4.02.01.02.02	Dismantling od the existing relay equipment of central traffic dispatcher Novi Sad - Subotica	set	1	536.36	536.36
5.4.02.01.02.03	Installation design	set	1	1,755.36	1,755.36
5.4.02.01.02.04	As-Built Documentation with operation instructions	set	1	487.60	487.60
	Central traffic dispatcher Novi Sad - Subotica - works				-
5.4.02.02	Central electric traction dispatcher Novi sad - Indjija and Novi Sad - Subotica				-
5.4.02.02.02	Works				-
5.4.02.02.02.01	Installation, testing and putting into operation of the central dispatcher device	set	1	17,014.08	17,014.08
5.4.02.02.02.02	Dismantling od the existing relay equipment of central elecric traction dispatcher Novi Sad - Indjija and Novi Sad - Subotica	set	1	536.36	536.36
5.4.02.02.02.03	Installation design	set	1	1,755.36	1,755.36
5.4.02.02.02.04	As-Built Documentation with operation instructions	set	1	487.60	487.60
	Central electric traction dispatcher Novi sad - Indjija and Novi Sad - Subotica - works				-
					-
5.4.02.03	Station dispatcher device Novi Sad				-
5.4.02.03.02	Works				-
5.4.02.03.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	33,331.66	33,331.66
5.4.02.03.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	pcs.	20	310.11	6,202.20
5.4.02.03.02.04	Installation design	set	1	2,242.96	2,242.96
5.4.02.03.02.05	Measuring, testing and commissioning	set	1	5,578.14	5,578.14
5.4.02.03.02.06	As-Built Documentation with operation and maintenance instructions	set	1	536.36	536.36
5.4.02.03.02.07	Laying of cable JH(St)H	m	540	0.83	448.20
	Station dispatcher device Novi Sad - works				-
5.4.02.04	Station dispatcher device Sajlovo				-
5.4.02.04.02	Works				-
5.4.02.04.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	16,626.46	16,626.46
5.4.02.04.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	12	310.11	3,721.32
5.4.02.04.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.04.02.05	Measuring, testing and commissioning	set	1	4,778.48	4,778.48
5.4.02.04.02.06	As-Built Documentation with operation and maintenance instructions	set	1	536.36	536.36
5.4.02.04.02.07	Laying of cable JH(St)H	m	135	0.83	112.05
	Station dispatcher device Sajlovo - радови				-
5.4.02.05	Station dispatcher device Rumenka				-
5.4.02.05.02	Works				-
5.4.02.05.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	20,786.85	20,786.85
5.4.02.05.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	11	310.11	3,411.21
5.4.02.05.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.05.02.05	Measuring, testing and commissioning	set	1	4,290.88	4,290.88
5.4.02.05.02.06	As-Built Documentation with operation and maintenance instructions	set	1	536.36	536.36
5.4.02.05.02.07	Laying of cable JH(St)H	m	135	0.83	112.05
	Station dispatcher device Rumenka - works				-

5.4.02.06	Station dispatcher device Kisac				-
5.4.02.06.02	Works				-
5.4.02.06.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	18,160.30	18,160.30
5.4.02.06.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	8	310.11	2,480.88
5.4.02.06.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.06.02.05	Measuring, testing and commissioning	set	1	4,290.88	4,290.88
5.4.02.06.02.06	As-Built Documentation with operation and maintenance instructions	set	1	536.36	536.36
5.4.02.06.02.07	Laying of cable JH(St)H	m	165	0.83	136.95
	Station dispatcher device Kisac - works				-
5.4.02.07	Station dispatcher device Stepanovicevo				-
5.4.02.07.02	Works				-
5.4.02.07.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	18,168.10	18,168.10
5.4.02.07.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	8	310.11	2,480.88
5.4.02.07.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.07.02.05	Measuring, testing and commissioning	set	1	4,290.88	4,290.88
5.4.02.07.02.06	As-Built Documentation with operation and maintenance instructions	set	1	487.60	487.60
5.4.02.07.02.07	Laying of cable JH(St)H	m	150	0.83	124.50
	Station dispatcher device Stepanovicevo - works				-
5.4.02.08	Station dispatcher device Zmajevo				-
5.4.02.08.02	Works				-
5.4.02.08.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	17,543.98	17,543.98
5.4.02.08.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	8	310.11	2,480.88
5.4.02.08.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.08.02.05	Measuring, testing and commissioning	set	1	4,290.88	4,290.88
5.4.02.08.02.06	As-Built Documentation with operation and maintenance instructions	set	1	487.60	487.60
5.4.02.08.02.07	Laying of cable JH(St)H	m	165	0.83	136.95
	Station dispatcher device Zmajevo - works				-
5.4.02.09	Station dispatcher device Vrbas Novi				-
5.4.02.09.02	Works				-
5.4.02.09.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	22,593.66	22,593.66
5.4.02.09.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	12	310.11	3,721.32
5.4.02.09.02.04	Installation design	set	1	2,438.00	2,438.00
5.4.02.09.02.05	Measuring, testing and commissioning	set	1	4,876.00	4,876.00
5.4.02.09.02.06	As-Built Documentation with operation and maintenance instructions	set	1	487.60	487.60
5.4.02.09.02.07	Laying of cable JH(St)H	m	75	0.84	63.00
	Station dispatcher device Vrbas Novi - works				-
5.4.02.10	Station dispatcher device Vrbas				-
5.4.02.10.02	Works				-
5.4.02.10.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	10,195.49	10,195.49
5.4.02.10.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	5	310.11	1,550.55
5.4.02.10.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.10.02.05	Measuring, testing and commissioning	set	1	3,900.80	3,900.80
5.4.02.10.02.06	As-Built Documentation with operation and maintenance instructions	set	1	487.60	487.60
5.4.02.10.02.07	Laying of cable JH(St)H	m	165	0.83	136.95
	Station dispatcher device Vrbas - works				-
5.4.02.11	Station dispatcher device Lovcenac				-
5.4.02.11.02	Works				-
5.4.02.11.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	22,014.75	22,014.75

5.4.02.11.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	8	310.11	2,480.88
5.4.02.11.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.11.02.05	Measuring, testing and commissioning	set	1	4,290.88	4,290.88
5.4.02.11.02.06	As-Built Documentation with operation and maintenance instructions	set	1	487.60	487.60
5.4.02.11.02.07	Laying of cable JH(St)H	m	135	0.83	112.05
	Station dispatcher device Lovcenac - works				-
5.4.02.12	Station dispatcher device Backa Topola				-
5.4.02.12.02	Works				-
5.4.02.12.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	17,543.98	17,543.98
5.4.02.12.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	8	310.11	2,480.88
5.4.02.12.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.12.02.05	Measuring, testing and commissioning	set	1	4,290.88	4,290.88
5.4.02.12.02.06	As-Built Documentation with operation and maintenance instructions	set	1	487.60	487.60
5.4.02.12.02.07	Laying of cable JH(St)H	m	130	0.83	107.90
	Station dispatcher device Backa Topola - works				-
5.4.02.13	Station dispatcher device Zednik				-
5.4.02.13.02	Works				-
5.4.02.13.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	17,544.86	17,544.86
5.4.02.13.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	8	310.11	2,480.88
5.4.02.13.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.13.02.05	Measuring, testing and commissioning	set	1	4,290.88	4,290.88
5.4.02.13.02.06	As-Built Documentation with operation and maintenance instructions	set	1	487.60	487.60
5.4.02.13.02.07	Полагање кабла JH(St)H	m	165	0.83	136.95
	Station dispatcher device Zednik - works				-
5.4.02.14	Station dispatcher device Naumovicevo				-
5.4.02.14.02	Works				-
5.4.02.14.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	19,682.09	19,682.09
5.4.02.14.02.03	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	11	310.11	3,411.21
5.4.02.14.02.04	Installation design	set	1	2,145.44	2,145.44
5.4.02.14.02.05	Measuring, testing and commissioning	set	1	4,290.88	4,290.88
5.4.02.14.02.06	As-Built Documentation with operation and maintenance instructions	set	1	487.60	487.60
5.4.02.14.02.07	Полагање кабла JH(St)H	m	285	0.83	236.55
	Station dispatcher device Naumovicevo - works				-
5.4.02.15	Station dispatcher device Subotica				-
5.4.02.15.02	Works				-
5.4.02.15.02.02	Installation of complete station equipment and accessories, together with cabling and wiring	set	1	29,256.00	29,256.00
5.4.02.15.02.03	Installation of the reduced version of the statiojn device	set	2	14,628.00	29,256.00
5.4.02.15.02.04	Installation of a telephone set at the entry and exit signals, with introduction and placing the wires of TK 59 M cable	set	30	310.11	9,303.30
5.4.02.15.02.05	Installation design	set	1	2,438.00	2,438.00
5.4.02.15.02.06	Measuring, testing and commissioning	set	1	4,876.00	4,876.00
5.4.02.15.02.07	As-Built Documentation with operation and maintenance instructions	set	1	536.36	536.36
5.4.02.15.02.08	Полагање кабла JH(St)H	m	345	0.83	286.35
	Station dispatcher device Subotica - works				-
5.4.02.16	Border hut + border SPN				-
5.4.02.16.02	Works				-
5.4-02.16.02.01	Installation of the compelete equipent and accessories, wiring and cabling	ком.	1	8,971.84	8,971.84
5.4-02.16.02.02	Installation of the cable terminal box KG 10×2 with fuses	ком.	2	50.71	101.42
5.4-02.16.02.03	Opening and closing of the cable trough	m	40	10.73	429.20

5.4-02.16.02.04	Laying , introduction and splicing of the cables TK 39 P and PP 41	m	120	2.76	331.20
5.4-02.16.02.05	Installation design	кпл.	1	1,755.36	1,755.36
5.4-02.16.02.06	Measuring, testing and commissioning	кпл.	1	3,510.72	3,510.72
5.4-02.16.02.07	As-Built Documentation	кпл.	1	487.60	487.60
	Border hut + border SPN - works				-
					-
5.4.02.17	ATB telephones Novi Sad ß Subotica				-
5.4.17-1	Subsection Novi Sad - Rumenka				-
5.4.17-1.02	Works				-
5.4.17-1.02.01	Installation of the ATB telephones on the signal pole	pcs.	8	750.62	6,004.96
5.4.17-1.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	2	375.28	750.56
5.4.17-1.02.03	Dismantling and storing of existing telephones	pcs.	4	195.04	780.16
5.4.17-1.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	2	216.38	432.76
5.4.17-1.02.05	Opening and closing of the cable trough	m	1050	10.73	11,266.50
5.4.17-1.02.06	Laying TK 39 P	m	1050	1.10	1,155.00
5.4.17-1.02.07	Installation design	set	2	155.10	310.20
5.4.17-1.02.08	Measuring, testing and commissioning	set	2	1,952.35	3,904.70
5.4.17-1.02.09	As-Built Documentation	set	2	72.22	144.44
	ATB telephones Novi Sad - Rumenka - works				-
5.4.17-2	Subsection Rumenka - Kisač				-
5.4.17-2.02	Works				-
5.4.17-1.02.01	Installation of the ATB telephones on the signal pole	pcs.	8	750.62	6,004.96
5.4.17-1.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	2	375.28	750.56
5.4.17-1.02.03	Dismantling and storing of existing telephones	pcs.	4	195.04	780.16
5.4.17-1.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	2	216.38	432.76
5.4.17-1.02.05	Opening and closing of the cable trough	m	840	10.73	9,013.20
5.4.17-1.02.06	Laying TK 39 P	m	840	1.10	924.00
5.4.17-1.02.07	Installation design	set	2	155.10	310.20
5.4.17-1.02.08	Measuring, testing and commissioning	set	2	1,952.35	3,904.70
5.4.17-1.02.09	As-Built Documentation	set	2	72.22	144.44
	ATB telephones Rumenka - Kisač - works				-
5.4.17-3	Subsection Kisač - Stepanovićevo				-
5.4.17-3.02	Works				-
5.4.17-3.02.01	Installation of the ATB telephones on the signal pole	pcs.	8	750.62	6,004.96
5.4.17-3.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	2	375.28	750.56
5.4.17-3.02.03	Dismantling and storing of existing telephones	pcs.	6	195.04	1,170.24
5.4.17-3.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	2	216.38	432.76
5.4.17-3.02.05	Opening and closing of the cable trough	m	840	10.73	9,013.20
5.4.17-3.02.06	Laying TK 39 P	m	840	1.10	924.00
5.4.17-3.02.07	Installation design	set	2	155.10	310.20
5.4.17-3.02.08	Measuring, testing and commissioning	set	2	1,952.35	3,904.70
5.4.17-3.02.09	As-Built Documentation	set	2	72.22	144.44
	ATB telephones Kisač - Stepanovićevo - works				-
5.4.17-4	Subsection Stepanovićevo - Zmajevo				-
5.4.17-4.02	Works				-
5.4.17-4.02.01	Installation of the ATB telephones on the signal pole	pcs.	4	750.62	3,002.48

5.4.17-4.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	1	375.28	375.28
5.4.17-4.02.03	Dismantling and storing of existing telephones	pcs.	2	195.04	390.08
5.4.17-4.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	1	216.38	216.38
5.4.17-4.02.05	Opening and closing of the cable trough	m	420	10.73	4,506.60
5.4.17-4.02.06	Laying TK 39 P	m	420	1.10	462.00
5.4.17-4.02.07	Installation design	set	1	155.10	155.10
5.4.17-4.02.08	Measuring, testing and commissioning	set	1	1,952.35	1,952.35
5.4.17-4.02.09	As-Built Documentation	set	1	72.22	72.22
	ATB telephones Stepanovićevo - Zmajevo - works				-
5.4.17-5	Subsection Zmajevo - Vrbas Nova				-
5.4.17-5.02	Works				-
5.4.17-5.02.01	Installation of the ATB telephones on the signal pole	pcs.	16	750.62	12,009.92
5.4.17-5.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	4	375.28	1,501.12
5.4.17-5.02.03	Dismantling and storing of existing telephones	pcs.	10	195.04	1,950.40
5.4.17-5.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	4	216.38	865.52
5.4.17-5.02.05	Opening and closing of the cable trough	m	1680	10.73	18,026.40
5.4.17-5.02.06	Laying TK 39 P	m	1680	1.10	1,848.00
5.4.17-5.02.07	Installation design	set	4	155.10	620.40
5.4.17-5.02.08	Measuring, testing and commissioning	set	4	1,952.35	7,809.40
5.4.17-5.02.09	As-Built Documentation	set	4	72.22	288.88
	ATB telephones Zmajevo - Vrbas Nova - works				-
5.4.17-6	Subsection Vrbas Nova - Lovćenac-Mali Iđoš				-
5.4.17-6.02	Works				-
5.4.17-6.02.01	Installation of the ATB telephones on the signal pole	pcs.	24	750.62	18,014.88
5.4.17-6.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	6	375.28	2,251.68
5.4.17-6.02.03	Dismantling and storing of existing telephones	pcs.	14	195.04	2,730.56
5.4.17-6.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	6	216.38	1,298.28
5.4.17-6.02.05	Opening and closing of the cable trough	m	2520	10.73	27,039.60
5.4.17-6.02.06	Laying TK 39 P	m	2520	1.10	2,772.00
5.4.17-6.02.07	Installation design	set	6	155.10	930.60
5.4.17-6.02.08	Measuring, testing and commissioning	set	6	1,952.35	11,714.10
5.4.17-6.02.09	As-Built Documentation	set	6	72.22	433.32
	ATB telephones Vrbas Nova - Lovćenac-Mali Iđoš - works				-
5.4.17-7	Subsection Lovćenac-Mali Iđoš - Bačka Palanka				-
5.4.17-7.02	Works				-
5.4.17-7.02.01	Installation of the ATB telephones on the signal pole	pcs.	20	750.62	15,012.40
5.4.17-7.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	5	375.28	1,876.40
5.4.17-7.02.03	Dismantling and storing of existing telephones	pcs.	12	195.04	2,340.48

5.4.17-7.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	5	216.38	1,081.90
5.4.17-7.02.05	Opening and closing of the cable trough	m	2100	10.73	22,533.00
5.4.17-7.02.06	Laying TK 39 P	m	2100	1.10	2,310.00
5.4.17-7.02.07	Installation design	set	5	155.10	775.50
5.4.17-7.02.08	Measuring, testing and commissioning	set	5	1,952.35	9,761.75
5.4.17-7.02.09	As-Built Documentation	set	5	72.22	361.10
	ATB telephones Lovćenac-Mali Iđoš - Bačka Palanka - works				-
5.4.17-8	Subsection Bačka Palanka - Žednik				-
5.4.17-8.02	Works				-
5.4.17-8.02.01	Installation of the ATB telephones on the signal pole	pcs.	20	750.62	15,012.40
5.4.17-8.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	5	375.28	1,876.40
5.4.17-8.02.03	Dismantling and storing of existing telephones	pcs.	12	195.04	2,340.48
5.4.17-8.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	5	216.38	1,081.90
5.4.17-8.02.05	Opening and closing of the cable trough	m	2100	10.73	22,533.00
5.4.17-8.02.06	Laying TK 39 P	m	2100	1.10	2,310.00
5.4.17-8.02.07	Installation design	set	5	155.10	775.50
5.4.17-8.02.08	Measuring, testing and commissioning	set	5	1,952.35	9,761.75
5.4.17-8.02.09	As-Built Documentation	set	5	72.22	361.10
	ATB telephones Bačka Palanka - Žednik - works				-
5.4.17-9	Subsection Žednik - Naumovićevo				-
5.4.17-9.02	Works				-
5.4.17-9.02.01	Installation of the ATB telephones on the signal pole	pcs.	12	750.62	9,007.44
5.4.17-9.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	3	375.28	1,125.84
5.4.17-9.02.03	Dismantling and storing of existing telephones	pcs.	8	195.04	1,560.32
5.4.17-9.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	3	216.38	649.14
5.4.17-9.02.05	Opening and closing of the cable trough	m	1260	10.73	13,519.80
5.4.17-9.02.06	Laying TK 39 P	m	1260	1.10	1,386.00
5.4.17-9.02.07	Installation design	set	3	155.10	465.30
5.4.17-9.02.08	Measuring, testing and commissioning	set	3	1,952.35	5,857.05
5.4.17-9.02.09	As-Built Documentation	set	3	72.22	216.66
	ATB telephones Žednik - Naumovićevo - works				-
5.4.17-10	Subsection Naumovićevo - Subotica				-
5.4.17-10.02	Works				-
5.4.17-10.02.01	Installation of the ATB telephones on the signal pole	pcs.	12	750.62	9,007.44
5.4.17-10.02.02	Installation od the cabinet comprising the cable terminal box KG 30×2 and cable strips with foundation, introduction and connection of the cables TK 59 M 15×4×0,8 and TK 59 M 5×4×0,8 and connection of earthing strand	pcs.	3	375.28	1,125.84
5.4.17-10.02.03	Dismantling and storing of existing telephones	pcs.	8	195.04	1,560.32
5.4.17-10.02.04	Installation of the thermoshrinking joint between the branch cable of the line side cable and the cable TK 59 M 15×4×0,8	pcs.	3	216.38	649.14
5.4.17-10.02.05	Opening and closing of the cable trough	m	1260	10.73	13,519.80
5.4.17-10.02.06	Laying TK 39 P	m	1260	1.10	1,386.00
5.4.17-10.02.07	Installation design	set	3	155.10	465.30
5.4.17-10.02.08	Measuring, testing and commissioning	set	3	1,952.35	5,857.05
5.4.17-10.02.09	As-Built Documentation	set	3	72.22	216.66
	ATB telephones Naumovićevo - Subotica - works				
	Total 5.4.7. ATB telephones Novi Sad - Subotica $				
				TOTAL(USD):	**860,572.93**

PART - 8
EXISTING RADIO DISPATCHING SYSTEM (RDV)

No.	Contents	System	Type	pcs	Num	Unit-Price (USD)	Price (USD)
1	Trackside radio station with all nessesary equipment (antennas, distributor, cables with connectors, rack, rectifier, batteries, additional equipment,...)	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Material	set	8.00	48,454.56	387,636.48
2	Central equinment with all nessesary equipment (rack, server, media convertor, 4-channel recording system,work station, rectifier, batteries, additional equipment, ...), adeqate software (adjusted based on the railway company demands), licences,...	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Material	set	1.00	164,496.00	164,496.00
3	Standard concrete housing unit for trackside radio station with foundation and additional materiala nad installation	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Material	set	2.00	6,094.08	12,188.16
4	RDV wireless sysytem einforcement	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Material	set	1.00	4,600.00	4,600.00
5	Dismantling the equipment of existing trackside radio-stations (devices, cables, antennas, additional equippment...) and hand over to the Investor in the present state, on set location	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	6.00	662.40	3,974.40
6	Dismantling the housing for the trackside radio-station and hand over to the Investor in the present state, on set location	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	1,192.32	1,192.32
7	Dismantling the equipment of existing analog radio central equipment (devices, cables, antennas, additional equippment...) and hand over to the Investor in the present state, on set location	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	1,104.00	1,104.00
8	Installation of the standard concrete housing unit for trackside radio station with foundation and additional materiala nad installation	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	2.00	1,258.56	2,517.12
9	Preparation of the Study of the railway coverage by the electromagnetic field of the locomotive radio dispatching system	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	9,200.00	9,200.00
10	Theoretical calculation of EM fields for determining the locations of radio stations of an analog radio system	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	4,600.00	4,600.00
11	EM field measurement for determining the locations of radio stations of an analog radio system	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	11,040.00	11,040.00
12	Installation and connection of the equipment of the system	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	24,840.00	24,840.00
13	Commissioning of all equipment (basic functionality with check of all points of the network)	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	6,568.80	6,568.80
14	Integration of equipment (basic functionality with check of all points of the network) and testing for the Owner /Investor's basic acceptance - for the entire section	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	5,464.80	5,464.80
15	Optimization & Additional features integration	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	2,760.00	2,760.00
16	Global Acceptance & Verification - for the whole line	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	920.00	920.00
17	User training (for the entire section)	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	1,840.00	1,840.00
18	Designing and preparation of documentation (for the entire section, including the as-built documentation)	EXISTING RADIO DISPATCHING SYSTEM (RDV)	Works	set	1.00	3,680.00	3,680.00
						TOTAL(USD):	**648,622.08**